South Africa killings may jeopardise **ANC** talks

South African police shot dead four black youths and wounded about 20 during a demonstration at a black township near Johannesburg. The incident could jeopardise negotiations between Pretoria and the African National Congress.

Contra ceasefire Nicaragua and leaders of the US-backed Contra rebels signed a ceasefire in Managua, putting an end to almost nine years of war which has cost about 50,000 lives. Page 22

Bus bomb kills 15 At least 15 people were killed and 37 injured when a bomb exploded on a bus near Pathan-kot in India's Punjab state.

Jerusalem threat Leaders of the Palestinian uprising in the Israeli-occupied territories said they had sentenced an Armenian businessman to death for leasing a building in the Old City of

Zaire air crash

All but one of the 18 people on board, including an army colonel, died when their Hercules transport aircraft crashed near Kinshasa, the Zaire capital. Twenty people were missing after a twin-engined air-craft crashed off Contadora

Flight disruption

A strike by French air traffic controllers will hit flights today to and from the Paris airports of Charles de Gaulle

Seville explosion

A parcel bomb explosion which blew off the hand of a secretary at the office of the Seville Expo-92 World Fair was believed to be the work of Basque separatists.

Better friends

The Vatican and Czechoslovakla restored diplomatic ties two days before Pope John Paul was due to visit, formally ending four decades of sour Church-state relations.

Absolute rule ends King Birendra of Nepal swore ad Bhattara as Prime Minister, ending 30 years of absolute rule by the

monarchy in the Himalayan

Australian floods Ten people are missing in floods which have hit eastern Australia, isolating outback townships and killing more

than 15,000 sheep. **Diplomats ousted**

Turkey asked West Germany to withdraw eight diplomats from Ankara, apparently in retaliation for the expulsion of 15 Turkish diplomats from Bonn recently. Page 2

Mongolian reform Mongolia's leadership has dis-solved the ministry of public

security in Ulan Bator in another step toward reform.

Tight-lipped

A Yugoslav on firearms charges appeared in court in Malaga, Spain, with his lips sewn together to avoid making

We<u>ek</u>end

Tomorrow: The

origin of life,

the universe and

everything

The feuds and

tangled fortunes of

Louis Vuitton

loyalty and financial clout

Mitterfand the monetarist

Gas Industry: Survey

Computer Industry: Survey

Talwant Time is up for the nationalist geronto-

Technology: Toyota's relentless pursuit of

Overseas listings: Enhancing shareholder

Editorial comments Europe's road to union;

Electricity generation: European power

struggle to supply the UK with equipment 21

CONTENTS

perfection.

Business Summary

SERIALS

IMF issues warning to Spanish Government

THE International Monetary Fund warned the Spanish Government that it must swiftly reach an agreement with employers and trade unions on boosting competitiveness to avoid a further deterioration in inflation and the current account deficit. Page 22

US Securities and Exchange Commission unanimously approved a rule which will exempt billions of dollars of privately placed shares and onds from its registration requirements, a move which it believes will create a much larger and more liquid market with more foreign participa-

MARRETS: UK equity market hit a new low. The FT-SE 100 share closed at 2,184.7, down 21.2 on the day, Page 22; Tokyo After moving between a low of 29.296.25 and a high of 30,034.45, the Nikkei closed 696.35 up at 29,945.41. Back page, Section II

FRANK Lorenzo, the oft-maligned mayerick of US aviation has lost control of Eastern Air Lines, the ailing carrier he has struggled for a year to rebuild under the protection of the US bankruptcy court. Page

GROUP of Seven industrialised countries called for closer international co-operation and tougher laws to combat drug money laundering. Page 22 ALCATEL, French electronics

group, said earnings soared by one-third in 1989 and that one of its owners, Compagnie Générale d'Electricité, has increased its stake. Page 23

AMERICAN Express, US financial services and travel group, announced a net loss of \$620m. in the first quarter due to the troubles at Shearson Lehman Hutton, its brokerage subsidiary. Page 23

NISSHO Iwai Corporation, Japanese industrial group, Aust-pac, a small Australian gold exploration company, and Buller Minerals, a New Zealand mineral company, are going ahead with joint venture ans for a \$76m titanium slag plant. Page 4

WESTERN Kuropean new car sales were running at a record level in the first quarter of 1990, continuing the longest period of sustained growth enjoyed by the western Euro-pean car industry. Page 2

US TRADE officials expressed satisfaction on the implementation of trade agreements with South Korea. Page 4

ALLIED-LYONS, UK food and drinks group, agreed to sell Embassy Hotels for \$331.28m to Jarvis Hotels. Page 10

BNP, Banque Nationale de Paris, largest French state-owned bank, has reported an 11 per cent increase in net prof-

its. Page 25 GENERAL Dynamics and Northrop, two leading US efence contractors, reported

higher first-quarter earnings. Page 24 CONNER Peripherals, fast growing computer company, may be forced to slow down because of a shortage of essen-

tial components. Page 24

...Section III

FRANCE and West Germany yesterday launched a joint ini-tiative to achieve European political and monetary union by 1993 in a dramatic attempt to bring integration of the Community into line with the quickened pace of German uni-

President François Mitter-rand and Chancellor Helmut Kohl issued a joint message to

The Franco-German initiative, however, drew a decidely frosty reception from Mrs Mar-

clear that she did not want the EC summit in Dublin at the end of this month to become preoccupied with proposals for political union.

The Franco-German message said: "In view of the profound said: "in view of the projound transformations in Europe, of the establishment of the internal market and of the achievement of Economic and Monetary Union (EMU), we think it necessary to accelerate the political construction of the 12 member Furore."

12-member Europe."
"We think the time has come to transform the whole rela-tionship between member states into a European Union and to give it the necessary means to act."

It called for preparatory work to begin immediately on an intergovernmental conference, with the aim of: • reinforcing the democratic legitimacy of the European

 making Europe's institu-tions more effective; ensuring the unity and

Lithuanians stand firm

As the French and US Presidents met in Florida, Bush Administration officials said the US would post-pone production of short range nuclear rockets to replace Lance missiles in West Germany. The US aims to respond to developments in Europe and impending German unification while maintaining Nato's role in the western alliance. Page 22

coherence of the Union's eco nomic, monetary and political defining and putting into effect a common foreign and

defence policy.
Mr Mitterrand and Mr Kohl ask for a preliminary report from foreign ministers to be presented to the June summit of the EC in Dublin, and a final report to the December summit

Our objective is that these fundamental reforms - eco-nomic and monetary union as well as political union - should come into force on January 1 1993, after ratification by national parliaments. 1992 for treaty ratification.
This would allow implementation of EMU by 1993 – very close to yesterday's Paris-Bonn On the French side, the joint initiative represents the Government's conviction that the best response to German unification and the upheavals in eastern Europe is to press ahead with the development of significantly the ideas for bringing EMU into force dis-

the European Community. French officials yesterday emphasised that the political union initiative showed the continued importance of the Paris-Bonn axis in the EC and disproved the widespread impression of an increasing distance between Mr Mitter-rand and Mr Kohl.

West German officials said that work on drafting yester-day's declaration had been initiated by Bonn.

By agreeing to the target of 1993. Mr Kohl has moved firmly into line with thinking both in Paris and at the EC Brussels has previously set

EAST EUROPEAN countries

reform should ensure they

new unemployed would increase the chance of success

the stronger will be the case for governments to stand firm

or governments to stand him in resisting pressures to maintain controlled prices on basic goods or to postpone the liquidation of unviable enterprises,"—said Mr. Camdessus, whose organisation has often here criticised for restlecting

been criticised for neglecting

He said governments in

making efforts to close their budget deficits.

Mr Camdeesus said the eco-

"The stronger the safety net,

of the programmes.

E Europe needs welfare

nets, says Camdessus

Field sold to Dayton Hudson out a rough plan for negotia-tions during 1991 on an inter-By Karen Zagor in New. York and Barbara Durr governmental conference (IGC) on monetary union, leaving

in Chicago

Marshall

D 8523A

BAT Industries, the British conglomerate, yesterday took a big step forward in the dis-

a big step forward in the disposal of its US retail operations when it agreed to sell Marshall Field, the department store chain, to Dayton Hudson for \$1.04bn in cash.

The price, which compares with \$500m expected by most analysts, bodes well for the sale of Saks Fifth Avenue, BAT's other big US retail subsidiary. The closing date for bids on Saks is next week and BAT hones to have a sale

bids on Saks is next week and BAT hopes to have a sale agreement by the end of April. BAT is paring down its businesses to concentrate on tobacco and financial services operations as part of a restructuring designed to fend off a threatened bid from Sir James Goldsmith's Hoylake consortium. It expects the consortium. It expects the reshaping to be completed by the end of June.

The price reflects the strategic appeal of Chicago-based Marshall Field to Dayton Hudson, which also operates fashionable department stores in the Midwest, but has no Chi-

cago outlet.

Mr Jeffrey Branman, managing director at Financo in New York, which specialises in retailing mergers and acquisitions described the deal as "very logical" for Dayton.
It also shows that a healthy
US department store can still

fetch a high price. Estimated prices for Field and Saks were revised downwards after Bloomingdale's failed to attract \$1bn when it was put on the block late last year. BAT bought Saks, which it describes as "the nation's pre-mier high fashion retailer," in 1973 and consolidated its pres-

ence in US retailing with the acquisition of Marshall Field in 1982. Field's elegant flagship store on Chicago's State Street has dominated the city's shopping

scene for 130 years. Last year it had revenues of more than \$1bn from its 24 stores. Mr Patrick Sheehy, BAT chairman, said Field's management had made a credible bid

for the retail business, but the Dayton Hudson offer was "clearly superior from both a quantitative and qualitative point."

payton Rudson, which operates 686 stores and had revenues of \$13.64bn in 1989, said Continued on Page 22
Lex, Page 22; World stock mar-

France and Germany launch new drive for European union by 1993

VANCIAL TIMES

Mr Charles Haughey, the Irish Prime Minister and current President of the European Council, calling for work to begin on an intergovernmental conference on political union. This would be held in parallel with the conference due to open before the end of the year on economic and monetary

garet Thatcher, the British Prime Minister. She said that the proposals had not been properly defined.

Mrs Thatcher also made it

DEFIANT Lithuanians

yesterday prepared to stand up to a Soviet energy blockade as

Moscow cut gas flows to the

republic by more than 80 per

cent the day after closing down

its oil pipelines. In Washington, the White

lyev, a Soviet Foreign Ministry spokesman, said that the oil

and gas cuts could be followed

by other measures which he did not specify. He said the Soviet Govern-

ment was still awaiting a response to an ultimatum issued by President Mikhail

Gorbachev, the Soviet leader, on Friday in which he said that

supplies of all materials to the

republic which could be exported for hard currency

March 11 declaration of inde-pendence was not rescinded.

Mr Vytautas Landsbergis

the Lithuanian President, said

the republic would hold out

indefinitely against economic sanctions. Lithuania can hold

against Soviet blockade By John Lloyd in Moscow and Karen Fossii and Robert Taylor in Osio · Lithuania's dependence Soviet supplies Moscow leadership's lim-

ited room for manoeuvre · Norway treats visit as Reports, Page 3

House said that President George Bush was consulting with US allies on how to television programme.
"Until 1944, Lithusnia lived
off its own products and had a
stable economy. It can surrepond to the tightening Soviet embargo on Lithuania. In Moscow, Mr Vadim Perfi-The republic's defiant atti-

tude followed a sharp tighten-ing of Moscow's threatened energy blockade as Soviet authorities cut gas flows to the republic from 18m cubic metres daily to just 3.5m cu m. The republic's Maseikiz oil refinery was reported to have enough fuel to last only two days after all supplies of crude from Moscow were cut on

Wednesday morning.
At the same time, the Ignaldown both power plants - reportedly for repairs, although local officials say that no overhaul of the plant had been

Lithuanians were pinning hopes on the visit to Oslo by Mrs Kazimiera Prunskiene, the

introducing radical economic native supplies from the Nor-wegians. Mrs Prunskiene was yesterday also invited to visit have strong social welfare systems in place, the managing director of the International Copenhagen on Saturday for talks with Mr Poul Schlüter, the Danish Prime Minister. Monetary Fund, Mr Michel Camdessus, said yesterday. In a speech in London, be

However, it remained unclear last night whether the Lithuanian Prime Ministen would be meeting any Norwegian oil companies directly during her stay in Oslo. More-over, the Norwegian Government made clear that it was not actively promoting talks on supplying oil. Mr Kjell Magne Bondevik,

the Norwegian Foreign Minis-ter, said: "The selling of oil and gas is a matter for the companies, if the Lithuanian Government asks for their assistance it is free to do so... we will not stop them... but they are on their own. We do not use oil and gas

the social consequences of its economic programmes.

He acknowledged that heavy demand for foreign capital in east Europe would put upward pressure on worldwide interest as an element in our foreign policy," he said. An executive for Statoil, the Norwegian state oil group said the company was "sitting on the sidelines." industrialised countries should reduce their demand for scarce private savings and allow real interest rates to stabilise, by

Statoil also believes Mrs Prunskeine is being unrealistic tical problems involved in transporting the oil from the Prime Minister, to secure alter. Continued on Page 22

By Stephen Fidler, Euromarkets Correspondent, said that a strong social safety net to help, for example, the

The timetable accelerates

cussed at last December's EC summit in Strasbourg.

Mrs Thatcher, speaking in the House of Commons before her meeting today with Mr Haughey, said Britain had made it clear that it would not

accept stage two and three of the Delors report which call for

the creation of a single Euro-

pean currency.

She said that the summit

needed to address a whole range of practical issues including German unification, relations with Eastern Europe

and with members of EFTA and the completion of the sin-gle European market.

reform, Page 21

turn of the year, is the most radical yet seen in the region.

inflation, the key to success, had fallen in March and the \$1bn stabilisation fund which industrialised countries pro-vided to support the Polish cur-rency had hardly been needed,



nomic reform programmes of east Europe carried serious risks which would be heightened if western financial sup-port proved inadequate.

Poland's IMF-supported eco-nomic plan, which began at the

> Dayton Hudson, which operkets, Page 50

out for 100 years without gas and oil," he said on a French Gorbachev sets out on collision course with Estonia and Latvia

By John Lloyd in Moscow

MR MIKHAIL GORBACHEV. the Soviet leader, and the two Baltic republics of Estonia and Latvia were yesterday set on a collision course following the

breakdown of talks in Moscow. The meeting ended in "acrimony and disappointment
despite Mr Gorbachev's offer to
the republics of a very large degree of autonomy if they remained in the union.
This would include a "con-

federative status" and, in the case of Latvia, the removal of all military bases. Mr Gorbachev also appeared to threaten the republics, saying that if Estonia and Latvia pursued independence, no talks could take place and that the republics would have "no future" outside of the USSR.

Independence, he insisted, was only possible under the

new law on secession, adopted last month. The talks were conducted between Mr Nikolai Ryzhkov, the Prime Minister and Mr Alexander Yakovley, a senior and the most liberal member of the Communist Party Polit-buro and Mr Arnold Ruutel

Mr Alfred Sikes, chair-

man of the US Federal

Communications Com-

mission, has recently

asserted his authority

into competition within the country's

Observer 39-50 Stock Markets 39-50

by launching a probe

long-distance tele-

Page 7

US telecoms commission chief

starts to flex his muscles



Gorbachev: collision course

and Mr Anatoly Gorbunovs, the respective (communist and moderate nationalist) Supreme Soviet Chairmen of Estonia and Latvia. Mr Ruutel told Estonian radio after the talks that he was "disappointed," and that he had insisted to the Soviet

leaders that the desire for inde-

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\$ index 68.1 (68.3) Tokyo close: Y157.75 US kunohtkine rates Fed Funds 8.2

3-mo Treasury yield: 8.025% Long Bond: 9632 yield: 8.867%

Y156.6

MARKETS

57.5436 London: \$1.644 (1.8375) DM2.7575 (2.7375) FFr9.2675 (9.2025) SFr2.4375 (2.43) Y257.25 (260.5) £ Index 87.1 (86.7)

QOLD New York: Comex Jun \$380.7 (379.7)

\$376.25 (375.25)

N SEA OIL (Argus) Brent 15-day Jun \$17.125 (16.30)

Chief price changes yesterday: Page 23

STERLING

New York h 51.8438

pendence was held by most Estonians. However Mr Gorbachev, he said, "did not want to listen," and no further talks were agreed. He said Mr Gorbachev had insisted he must tell all Estonians that their future

would be in jeopardy if they left the union.

Next week, the Estonian par-liament will excise the "Soviet Socialist Republic" from its official name and re-emerge as simple "Estonia". The former flag of the pre-war republic will become the national flag.

Mr Ivans commented afterwards that "Mr Gorbachev does not seem to understand that the demand for independence is not confined to

dence is not confined to extremists, but is shared by the majority." The Latvian Supreme Soviet would also adopt a declaration of indepen-dence, early next month, he

However, both delegations have agreed that commissions of experts, drawn from the republics and the Soviet sides. should begin work on the out-standing issues between them.

STOCK INDICES

2,184.7 (-21.2)

FT Ordinary: 1,712.2 (-20.4)

FT-A AH-Share: 1,085.20 (-0.9%)

2,729.95 (-2.93)

29,945.41 (+696.35)

closing 15&% (same)

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EUROPEAN NEWS

Airbus unveils plan to recover lost output

By Paul Betts, Aerospace Correspondent, in Toulouse

THE executive board of Airbus event of a strike. Industrie, the European air-craft manufacturing consortium, is today expected to approve an aircraft production

recovery programme.
The aim of the programme is to catch up as quickly as possi-ble on lost output following the four-month strike at two British Aerospace (BAe) plants supplying wings for Airbus air-craft.

The UK strike was yesterday described by Mr Jean Pierson, the Airbus managing director. as one of the longest in civil aircraft history.

He confirmed the strike would cost the consortium \$180m-\$200m but he added that the internal dispute between the four Airbus partners over sharing the financial costs caused by the strike would not affect the production recovery

BAe, which holds a 20 per cent stake in Airbus, could face a bill of between \$70m and \$80m if the other partners including Aerospatiale of France, MBB of Germany and Casa of Spain are successful in pressing claims that the British group should pay 40 per cent of the strike costs under article seven of the Airbus reg-ulations. But BAe claims this

By Lucy Kellaway in Brussels

WESTERN companies are

missing valuable business opportunities in East Ger-

many, and thereby may be endangering competitive condi-tions within the European

Community, Sir Leon Brittan,

competition commissioner said

far only West German compa-

nies have shown interest in investing in East Germany, and he called on companies

from other countries to play a

more active role. He said that the absence of

interested investors from out-

side Germany threatened to

put the competition authorities in the difficult position of hav-ing to choose between letting

eastern European companies collapse or allowing a merger with a West German compa-

nies that would lead to a large

reduction in competition.

He bemoaned the fact that so

Assembly of Airbus aircraft fell to under one a month when the strike ended last March. He said output was expected to pick up to about four aircraft a month by June. The aim is to reach a monthly production rate of 10 A320 twin engine narrow body aircraft by the end of 1991 and four to five wide body A300-A310 aircraft

by the autumn of next year.

Airbus production will fall short by about 30 aircraft of its

target of 138 this year. The pre-strike target for 1991 was 149 aircraft. To catch up, the consortium will have to produce 179 aircraft next year. This would entail above nor-To help BAe to meet the recovery programme targets, Aerospatiale and MBB are planning to send to the UK about 20 French and German

workers. Subcontracting some of its Airbus work to other companies is also being considwould sign tomorrow an agree-ment with Aeritalia whereby the the Italian state aerospace group would supply parts for the new A321 twin jet aircraft.

to be assembled in Hamburg. Companies urged to

invest in E Germany

FRANCO-GERMAN DECLARATION ON EUROPEAN POLITICAL AND MONETARY UNION

Bonn initiative behind ambitious target

By David Marsh in Bonn

YESTERDAY'S joint last November – which has declaration by Paris and Bonn on European political and monetary union follows weeks of man monetary union. diplomatic effort by West Ger-many to head off Community worries about the effects of German unity.

The initiative came from Bonn. The document released yesterday simultaneously in the two capitals was worked out in telephone conversations

out in telephone conversations between officials since the Easter holidays.

The goal of bringing both political and monetary union into effect by 1993 is highly ambitious. But Mr Helmut Kohl, the West German Chancellor, has been at pains to sketch out the maximum amount of common ground amount of common ground with Paris before next week's

with Paris before next week's Franco-German consultations in Paris and the Community summit in Dublin on April 28.

Officials at the Chancellery in Bonn admit that relations between Mr Kohl and President François Mitterrand have been "damaged" by irritation in Paris over the momentum of German unity. The West German government, however, has constantly played down any question of a crisis.

The message intended by

The message intended by yesterday's statement is that, after several months of engine trouble, the Franco-German Community motor is back in

full working order.

Mr Mitterrand has been annoyed by Mr Kohl's lack of consultation both on his 10-point plan for German unity

meeting of minds at the two countries' bilateral Finance Council in Paris earlier this month. Mr Pierre Bérégovoy, Clear indications of the Presthe French Finance Minister, now says he agrees with Mr Kohl's ideas for a fully indeident's misgivings came in his visit to Kiev in December to see President Mikhail Gorbapendent European central bank geared to price stability.

East Berlin and Leipzig.
Mr Mitterrand's tactics misfired. Both visits failed to have Mr Kohl and Mr Karl Otto Põhl, the Bundesbank presi-dent, agree over transferring sovereignty to a European cen-tral bank. Significantly, they would both like it to be in Frankfurt. any effect on the breakneck pace of German unity.

There is a clear element of risk in proposals for political and monetary union by 1993. Yesterday's initiative was not

The key question here is how many other Community members – including coun-tries like Italy which have traditionally seen the central bank as a source of funds for the government — would agree to tough German criteria.

Another stumbling block will come over defence and security policies – one of the areas for discussion singled out in yesterday's document. Bonn is very unhappy that, in spite of the changed European power balance, Paris appears to have no new ideas on restructuring Nato.

Whatever the harmony propagated in yesterday's statement, German worries about France's short-range nuclear missiles, for instance, are almost certain to come up at the bilateral summit in Paris



Kohl (right) and Mitterrand: Bonn-Paris axis back in harmony

Renault fails to persuade

Brussels in state aid row

RENAULT, the French state-owned car maker, yester-day denied it was contravening European Community state aid restrictions, amid signs that the Commission is about to demand repayment of part of a FFr12bn government debt write-off. But it maintains that it will hit this target by the end of 1992, when it has completed the closure of two plants

By William Dawkins in Paris and Lucy Kellaway in

E Germany announces reforms

chev, and his earlier trip to

discussed with the Bundes

bank, which has voiced considerable scepticism in the past about the feasibility of speedy European monetary union.

The initiative will spark

opposition from Britain, where Mrs Margaret Thatcher has

already made clear her opposi-tion to accelerating European

integration.

In a conciliatory gesture to London, Bonn and Paris decided that yesterday's document should be published in

English as well as French and German to avoid the impres-sion of a deliberate affront to

the UK. Bonn officials say they hope that, by concentrating the Community's mind on political union, Britain can eventually be persuaded to play a fuller role in integrating the Community. "Britain always jumps on

nity. "Britain always jumps on the train in the end," is how

The Franco-German accord

on monetary union follows a

one official puts it.

By Leslie Colitt and agencies in East Berlin

MR GERHARD POHL, East Germany's Economics Minis-ter, yesterday proposed a bold peckage of economic reforms aimed at the creation of free markets.

The measures would make it possible for private companies and banks to operate freely serve the domination of the structure in East Germany and from the end of May. Speaking to reporters after talks with Mr Helmut Hauss-

mann, his West German coun-terpart, Mr Pohl explained that a law giving people freedom to set up businesses should be on the statute books by the end of May, while a new banking law would allow private banks for the first time.

His radical proposals fol-lowed a speech by Mr Lothar de Maizière, the new Christian Democratic Prime Minister, who yesterday presented his coalition Government's pro-gramme to the Volkskammer (Parliament).

In a somewhat more cautious tone he was aiming to reassure East Germans that they would not lose out economically during the unifica-

tion process. Mr de Maizie're said his Government aimed to create 500,000 jobs this year in new medium-sized private compa-nies to compensate for expec-ted mass redundancies in state industries. Favourable tax conditions would be created for small and medium-sized pri-vate sector firms as well as for German and foreign investors. With pending German mone-tary union, he called for the elimination of all domestic

debts of East German private

and co-operative companies to improve their competitiveness. The plan was to convert state company debts, which total East Marks 200bn, at "at least" two East German Marks for one D-Mark. However Mr de Maizière insisted that wages, savings and pensions be con-verted into D-Marks at

restructuring plans submitted by the French Government in February, and to have asked for more details. Commission officials expect to reach a deci-sion within weeks on the two-year-old dispute, one of the big-gest and most sensitive EC state aid cases.

Renault accepts that the 11.5 per cent reduction in car-mak-Gloomy view from inside

Brussels

that while Renault's proposals are probably unacceptable, they are still negotiating with the Paris Government. French banks to report

drug laundering suspects

FRENCH banks will be obliged to report suspicions that accounts are being used for laundering illicit drug earn-

EC competition authorities are understood to be uncon-

vinced by a report on Renault's

A report yesterday said that up to \$85.4bn of drug money is laundered in the US and

Europe every year.

The French plan is the first practical result of a 15-nation action plan against money laundering, the initiative of the Group of Seven summit in Paris last July.

Experts yesterday unveiled the study which reckoned that sales of heroin, cocaine and cannabls in Europe and the US
were \$122bn a year, of which
between 50 and 70 per cent is
invested or laundered.
The study, which accuses

banks of frequently being unwitting accomplices in the recycling of illicit cash, makes 40 recommendations; including the lifting of bank secrecy for

pleted the closure of two plants in Billancourt, near Paris and in the Spanish town of Valla-

It will fulfil the other condi-tion, the abolition of its old

state-protected status as a "regie", as a result of the alliance with Volvo, the Swedish

car group. Commission officials stress

suspect accounts.

The French government will the proposals before parliament next month.

The French proposal applies to any financial intermediary, whether bank, stockbroker, or insurance company. They will be asked to pass their suspi-cions to Tractin, an anti-laundering unit set up in the French Finance Ministry last

At present, French banks, risk being sued for breaking confidentiality laws unless a

Nations divided on global warming cure

By John Hunt, Environment Correspondent

ENVIRONMENT ministers of The British Government could 34 countries will try to agree targets for reducing the green-house gases which cause global warming at an international conference in Bergen, Norway.

However, there are still wide differences of opinion between governments on the size and timing of the reductions.

The US, Canada and Euro-pean countries will be represented at the conference, Action for a Common Future. It is a follow-up to the Brund-tland Report of 1987 which called for sustainable economic development that will not damage the environment. The con-ference will seek international agreement and national commitments on ways to achieve

The draft declaration proposes that governments should tax environmentally-damaging products and activities and give fiscal incentives to discourage pollution. Such actions would make prices, particularly those related to energy, reflect environmental costs and benefits more fully and thus send markets signals and provide incentives," it

says.
The US will find it difficult to accept some of the proposals now that President George Bush is taking a cautious approach to global warming.

also find it hard to accept some of the proposals before its own white paper in the autumn, which will include economic measures to deal with environmental pressures.
The draft contains two alter-

native proposals to control emissions of carbon dioxide from the burning of fossil

from the burning of fossil fuels, the main contributor to global warming.

The first, milder proposal, is to agree on stabilisation as soon as possible at levels to be considered by the intergovernmental. mental Panel on Climate Change and the Second World Climate Conference later this year. The second, tougher, pro-posal is to stabilise emissions

at present levels by 2,000 as a preliminary target.

There is, however, a third, even more controversial, suggestion that there should be an investigation that there should be an investigation. investigation into whether a 20 per cent reduction in carbon dioxide emissions by the year 2,005 is feasible, as recommended by scientists at the Toronto Conference in 1988. The draft calls on govern-

ments to promote energy effi-ciency and the use of environ-mentally sound energy sources, and it urges that cap-tal and environmental technology should be provided to east ern Europe and developing

No let-up, Polish PM tells **Solidarity**

By Christopher Bobinski

SOLIDARITY, Poland's trade union movement, tried yester-day to turn its back on the tribulations of the martial law years and celebrate its newfound position as the country's leading political force at its congress here.

some 450 delegates representing just under 2m members gathered for the six-day congress in the Olivia Hall where they had last met in

September 1991.

But the harmonious atmosphere inside the hall was marred by a tram-drivers' pay strike in the city which local Solidarity leaders had failed to

head off.
Outside the hall, radical critics of the policies of Mr Lech
Walesa, the Solidarity leader,
handed out leaflets declaring
"Down with price rises" and
"Down with the Soviet Occupation" — a reference to the continuing presence of Soviet
troops in Poland.
At the congress, delegates
applauded Mr Walesa, who is
standing for re-election, as he
told them that they were to
elect a leadership for the union
to prepare a programme for the

to prepare a programme for the

Mr Tadeusz Mazowiecki, the Prime Minister, pledged that his Government "served the union's cause which was that of a free and independent Poland." But he gave no hint that he would be easing his International Monetary Fundapproved austerity programme and warned against giving in to "populist" solutions.

• The Czechoslovak parliament has approved longawaited laws permitting private enterprise and the establishment of joint stock companies. Reuter reports from Prague. Mr Tadeusz Mazowiecki, the

Prague.
The approval of government draft bills came late on Wednesday as the Federal Assembly discussed a welter of reforms designed to lead Czechoslovakia towards a market economy.

Turkey expels W German envoys

Turkey yesterday asked West Germany to withdraw eight diplomats from Ankara, apparently in retaliation for the expulsion of 15 Turkish diplo-mats from West Germany recently, writes Jim Bodgener

in Ankara. The Turkish diplomats were said to have been gathering information on suspected Turkish extremists and Kurdish activists.

Banks to boost Mediterranean clean-up loans

By David Thomas, Resources Editor

THE World Bank and the THE World Bank and the European Investment Bank yesterday proposed a substantial increase in loans for projects to improve the environment in countries bordering the Mediterranean.

The two banks, which made any improvement like which made

environmentally-related loans of \$5.6bm in the Mediterranean region in the 1980s, unveiled plans in Rome to boost environmental projects in the 18 Mediterranean countries.

The projects include control of marine pollution from the oil and chemicals industries, improving the management of solid and hazardous wastes, halting decline of coastal areas and improving water

These projects are set out in a 93-page environmental programme for the Mediterranean. The document warns of the

The document warns of the environmental problems facing the region, including the discharge of 550 tons of pesticides and 650,000 tons of hydrocarbons every year into the Mediterranean. Pollution and over-fishing have cut fish stocks in 20 per court fish stocks to 20 per cent of natural levels in many areas, it says.

The Environmental

Programme for the Mediterraneon. World Bank, 66 Avenue d'Iena, 75116 Paris,

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Serb nationalists rebuffed in Kosovo

to Serb nationalists, the Yugoslav authorities yesterday dropped all charges against Mr Azim Vlasi, former party leader of the southern Yugo-slav province of Kosovo.

explanation was given.
The bloody demonstrations

sevic, the nationalist-inspired President of the republic who had repeatedly accused the ethnic Albanian majority of

Control by Serbia over Kosovo was aimed at stemming the flow of migration and at imposing a pro-Serb leader-

sures to quash the riots and several attempts to obtain evidence against Mr Vlasi who first went on trial last October Serbia's strong-headed policies

reduce competition in West Germany.
Other countries were being put off investing there partly through a mistaken belief that

ing the Centre for European Policy Studies in Brussels, expressed concern that a rush

of such mergers might pre-

the German authorities might wish to keep the area for their own companies, he said. These companies were mis-reading the political risks involved, he said, and were

failing to make the distinction between investing in East Ger-many "where you really know what sort of political regime will be there in a very short time," and in other East Euro-pean countries. "My impres-sion is that people are not even engaging in the process of eduction in competition. deciding if there are opportuni-Sir Leon, who was address-ties there or not," he said.

By Judy Dempsey in London.

The charges against Mr Vlasi, who was accused of "counter-revolution" along with 14 other party officials for allegedly instigating demon-strations by ethnic Albanians last year, were dropped by the country's public prosecutor. No

in Kosovo, in which 50 people were killed, were sparked off following sweeping amendments to the Serbian constitution which gave Serbia direct control over the province.

The changes were introduced by Mr Slobodan Milo-

to leave the province alto-

discriminating against the small Serb and Montenegrin minorities and of forcing them

R KURT RICHTER, owner of the largest nationalised factory in East Germany to be privatised, sees a painful transition period for East German industry on the road to a market

economy.

Eltz, the country's largest producer of aluminium window-frames, with sales of more than 40m East Marks last year, was nationalised in 1972 with 11,000 other companies. It was returned to the Richter family on April 1. Seated in the same East Ber-

in office that he and his father used to occupy before national-isation, Mr Richter forecast that East German industrial output would plummet after

monetary and economic union with West Germany, which is to take place by July 1.

Industrial production has already fallen by 4.7 per cent in the first quarter and Mr Richer believes that most of the ter believes that most of the huge and unwieldy Kombinate (industrial groups) will not be viable even after they are bro-

will take three to five years before new companies will begin production," he said. He hopes to keep redundan-cies in his own company to a minimum by moving adminisminimum by moving adminis-trative personnel into produc-

Leslie Colitt talks to a factory owner back in his old office

privatised industry

Mr Richter was given a warm welcome by his former employees who remained loyal to him to the end.

He said he was firmly opposed to the proposal under monetary union raised in Bonn for a one-to-one conversion rate for East German companies. Most of them were sad-dled with heavy debt and would have to make repay-ments in D-Marks after July 1. A two-to-one rate was barely

However he was in favour of paying employees at a one-to-one rate, which would act as an incentive. His own 350 employees earned an above-average 1,500 Marks gross a month, still less than half the prevailing West German wage. The obsolescent machinery in the factory ken up.
"Tm afraid we will get millions of unemployed and that it meant their productivity was also half that of equivalent

could only rise in line with productivity gains, he said.

Throughout the 18 years of nationalisation – the state paid his family 10,000 Marks a month compensation minus a large chunk in taxes – the Richters never gave up hope of regaining control of their 100-year-old family-owned com-

Along with many others they were forced in the late 1950s to give the state a commanding share in the com-pany - in their case 90 per cent - to obtain investment funds. They are repaying the 10 per cent share they surren-dered in 1972 and will buy back the state's 90 per cent share as

well
Mr Richter said prospects
were excellent for his own
company and other small and
medium-sized firms. He was
already co-operating with several West German companies
and was in line to receive West
German European Recovery
Programme (ERP) funds for
East German entrepreneurs to
buy desperately-needed
machinery and tools.

Strong car sales in western Europe defy forecasts

By Kevin Done, Motor Industry Correspondent

sales were running at a record level in the first quarter of 1990, continuing the longest period of sustained growth enjoyed by the western Euro-

Sales in the first three months at 3.7m were 1.8 per cent higher than a year earlier, according to industry estiin March alone sales were marginally higher at 1.35m, an

increase of around 0.3 per cent,

as continuing strong demand

pean car industry.

in France and Italy was bal-anced by falls in the UK and Spain and virtually unchanged sales in West Germany. New car demand continues to defy industry forecasts that sales would weaken after five

years of record sales. New car registrations rose to nearly 13.5m last year and sales in each of the first three months higher than a year ear-

In the first quarter new car sales rose in 11 of 17 markets across western Europe, including West Germany. Italy and France, while sales were lower than a year earlier in the UK, Spain, Switzerland, Sweden, Finland and Portugal.

In the fierce competition between the big six volume car makers in Europe, the Volkswagen group, which includes Audi and SEAT, which has led the European sales league for the last five years, gained further ground in the first quarter

outpacing Fiat of Italy.

VW's estimated sales volume rose by 6.5 per cent, while Fiat, which includes Alfa Romeo, Lancia and Ferrari, suffered a marginal fall in sales of 0.5 per

Flat, which is traditionally strong in the first quarter, outsold Volkswagen in the first three months, but the West German car group has signifi-cantly narrowed the first quarter gap compared with a year ago, and is on track to main-tain its leadership of the European car market this year. The main loser in the first quarter was the Peugeot group

sharp contrast to the strong 6.2 per cent increase achieved by Renault, which is enjoying much faster growth in the rapidly expanding French market. The sustained product-led growth achieved by General

of France, which includes Citroen, with an estimated fall

of 3.1 per cent in sales volume,

Motors of the US (Opel/Vauxhall) in Europe has enabled it to catch Ford in Europe for the first time with both groups cent of western European new car sales in the first quarter. faltering as it suffers widely

contrasting fortunes in Europe. In the UK, its single most has been hit by a 20 per cent drop in sales and a fall in its market share to 24 per cent from 27.7 per cent a year ago. In Italy by contrast its sales were 127 per cent higher in the first quarter, helped by the success of the new generation Fiesta small car launched last

Uno, the biggest selling small car in Europe.
While Opel/Vauxhall sales were marginally behind Ford in the first quarter, the GM group in Europe, which group in Europe, which acquired a 50 per cent stake and management control of Saab of Sweden late last year, outsold the Ford group, which now includes Jaguar of the UK. (Saab and Jaguar are excluded from the CM and Ford figures in the table)

in the table).

spring, which has given it a

viable competitor to the Fiat

Volume Share (%) Share (%) Change(%) Jan-Mar 90 Jan-Mar 89 TOTAL MARKET 3,894,000 +1.8 100.0 MANUFACTURERS: -0.515,3 15.7 Alfa Romeo & Fer-542,000 +8.5 14.7 14.0 Audi and SEAT) 485,000 -3.113,1 13.8 415,000 General Motors (Opel, Vauxhall & US) Mercedes-Banz 117,000 86,000 MARKETS: 742,000 713,000

WEST EUROPEAN NEW CAR REGISTRATIONS

Prosperity under Moscow's aegis — at the price of intimate linkage The Corbodow the Liftmanian economy has grown more than any other republic, but so has its dependence, writes Michael Kaser The Corbodow the Liftmanian economy has grown more than any other republic, but so has its dependence, writes Michael Kaser The Soviet authorities made a point of demonstry made a point of

THE Lithuanian economy under Soviet rule, and in particular during Mr Mikhail Gorbachev's tenure of marty leadership, has been leadership. Its gross national product per capita in 1989 was some \$6,110 which was 9 per cent above the Soviet average and better than its Polish neighbour.

Predominantly agrarian dur-ing inter-war dependence, it gained its capital city, Vilnius, and a substantial industrial base under the aegis of Moscow. The price of course was intimate linkage with the

Soviet economy.
Growth in the five years of perestroika has been moré rapid than in any other Soviet republic. The 1989 index of net material product (the official-Soviet aggregate which excludes many of the services counted in gross domestic product) was 26 per cent higher

than in 1985 (compared, inci-dentally, with a target incre-ment of 16 per cent in the republican breakdown of the Pive-year Plan to 1990), whereas the index for the Soviet Union as a whole was 11

Because industrial expansion has been both recent and rapid, its capital stock is more modern by Soviet standards and is more efficiently used

Because industrial expansion has been both recent and rapid, its capital stock is more modern by Soviet standards and is more efficiently used. This is evident both from the 1989 increment in industrial output per worker (at 5.9 per cent the second-highest Soviet republic and comparing with 3.1 per cent as a whole) and

fell short of imports of Rbs7.5bn by Rbs1.5. In other words its import deficit with the Soviet Union and with the rest of the world was 16 per cent of material production. Almost exactly half the deficit was with the Soviet Union and the other half in foreign trade. Calculated in foreign exchange

tal-to-output ratios.

Lithuanian dependence on

outside sources can be

assessed from a few key aggregates. With a net material product in 1988 of 9.3bn domestic roubles

tic roubles, exports of Rbs5.9bn

prices the 1988 import deficit amounted to Rbs229m, or £216m at that year's official exchange rate. This is a modest sum if Scandinavian countries were willing to cover Lithua-nian external needs.

But it is the links to the Soviet Union that are difficult to replace. Oil and gas showed a deficit of Rbs563m in 1988, Rbs538m for metals, Rbs467m for chemicals and Rbs624m for

equipment.

Recent figures in volume terms are not to hand but in 1985 Lithuania had a net intake from the rest of the Soviet Union of 38.7m tonnes of pri-mary energy in terms of coal equivalent. Its sole domestic production is the nuclear power at Ignalino (two reactors of the Chernobyl type of 1500MW each, commissioned in not increased as intended,

a hydroelectric station at Kai-chiadoris of 1600MW. A little peat is extracted but domestic heating is principally coal and gas - Lithuania has

total energy consumption of 19.1m tonnes of coal equivalent. Only 1.9m is used for petrochemicals, at the huge com-plex of Maziekiai: cessation of that production would not therefore release a great deal for use as fuel.

Import of oil through the one port of Klaipeda is limited because it is not equipped for bulk liquids (Soviet oil is exported through the Latvian port of Ventspils to the north) and gas can only come in through the pipeline from Minsk. Supplies of gas to the Kaliningrad region (the north) ern part of former East Prussia) have to pass through Vilnius, which may preclude a complete cut-off. Switching Lithuania out of the national

straightforward, not only technically, but because the republic exports 2.2 times as many Lithuania's main industries depend on Soviet supplies: its

plastics factories receive 53 per

ucts and fish are only partially offset by fruit and vegetables, sugar and vegetable oils.

Those foodstuffs, together with textiles and electronic products would form a saleable list for western exports. But

Lithuania's main industries depend on Soviet supplies: its plastics factories receive 53 per cent of requirements from other parts of the Soviet Union

cent of requirements from other parts of the Soviet Union and the list of equipment it obtains is almost endless - lorries, agricultural and construc-tion machinery, power plant. Its agriculture requires mineral fertilizer from Soviet plants but in return it runs a substantial export surplus of foodstuffs. Meat and meat

stopping the delivery of food products to neighbouring zones of Belorussia, the Russian Federation (as far as Leningrad) would dislocate supplies in an already straitened retail market. Lithuanian agriculture is more important to these areas than its industrial goods - 52 per cent of Lithuanian national income comes from farming.

made a point of demonstrating that, because energy is seriously underpriced in the home market. Lithuania would have to pay much more if it purchased the same quantities of oil and gas at world prices. A recently published estimate by Moscow economists claims that there would be a deficit (calculating on 1988 deliveries) of 3,687m foreign-exchange rou-bles (just on £3.5bn) if all Lithuanian supplies had to be foreign traded. In Western economy terms, this is still not a vast figure, but it is a mea-sure of Lithuanian dependence that it cannot meet such sums off its own bat.

The Soviet authorities have

Michael Kaser is Director of the Institute of Russian, Soviet and East European Studies at Oxford University and a Profes-sorial Fellow of St Antony's

Conflicting constraints leave little room for Soviet leadership to manoeuvre

THE SOVIET leadership has sought to manoeuvre between a series of tight constraints. which surround its actions over the issue of Lithuania

These are:
The need to safeguard the integrity of the union at a time of rising nationalist feeting;

The desirability of reassuring Western leaderships that Lithuania will not disrupt either the democratisation pro-cess, the forthcoming US/USSR summit, or the Helsinki pro-

 The imperative of so targeting sanctions on Lithuania that they will have a minimal disruptive effect on the Soviet economy as a whole.

The various and differing interests which surround each of these aims in large part accounts for the contradictions in the Soviet response. In the first place, Mr Mikhail Gorbachev, the Soviet Presi-

dent, has insisted that all nationalist sentiments be contained within the law: and the law now includes a recently adopted bill on secession, which specifies the holding of a referendum and a five year

A 1 1 1

•

"divorce" process. Any attempt to short-circuit this process, he and other officials have made clear, cannot be tolerated because of the example it would give to other republics.

So far, this line has not worked. The Lithuanians remain adamant that they will not rescind their declaration of independence made on March 11, and are now taking the economic blockade as a sign that the USSR treats the republic as

a separate country.
This continued defiance makes the second objective harder: that of reassuring world opinion that the Soviet authorities remain committed to peaceful persuasion.

In seeking to do so, the Government has come close to mendacity: Mr Eduard Shev-ardnadze, the Foreign Minister, assured Mr Douglas Hurd, the British Foreign Secretary, that economic sanctions would not be applied two days before they were: he later told Mr Gianni De Michaelis, the Ital-ian Foreign Minister, that he thought of Lithuania as of an east European state - that is, presumably, independent. This soft line runs in parallel

with another which blasts the "propaganda campaign" against the Soviet Union: mounted by public figures and the media in the West, who are calling for tougher action against the USSR. This line in turn is kept sharply distinct from another, which distin-guishes the actions of governments, especially that of the US, from such "propaganda": Mr Perfilyev was at great pains

to insist that the communica-tions with the US administra-

tion were in good working order.

It may be that the Soviet leadership has concluded that it still has some room with the West for manoeuvre, and it may be right. European Com-munity parliamentarians in Moscow to meet senior officials thought their governments would confine themselves to rhetoric up to the point of mili-

The final aim - of targeting sanctions only on Lithuania — is probably impossible to achieve. Soviet economists have already pointed out that the republic is a monopoly sup-plier of some high-tech components, and a large supplier of

electronic consumer goods, food and cement. Its oil refinery supplies Latvia, Estonia and the Russian

Baltic strip round Kaliningrad: the larger enterprises, which would be hardest hit, are precisely those where most of the non-Lithuanians (mainly Rus-sian) work. A tightening of the screw on one Baltic republic which affected the two others could only further inflame anti-Soviet feeling.
The Soviet economy is an

integrated one: the Soviet authorities have made this point often enough against the nationalists, and are now realising it works two ways. The core of the matter seems to be this: how to find some way of starting talks, as in Lat-via and Estonia, while saving

The latest Lithuanian offer of a freeze on all further legis-lation may be extendable: the Soviet side may be willing to consider the removal of bases. Both sides have too much to lose to stay impaled on intransigent positions: but they may nevertheless remain on them, for lack of a good wheeze to get

Norway's guests are kept at arm's length

By Robert Taylor and Karen Fossil in Oslo

"PURE COINCIDENCE" is how Lithuania's foreign minister, Mr Algirdas Soudargas, described the timing of the Lithuanian Government's visit to Norway - Europe's second biggest oil producer - and the onset of the Soviet oil and gas blockade of his country.

But Mrs Kazimiera Prunskiene, the republic's Prime Minister, made clear she hoped her talks in Norway would lead to an agreement to provide oil supplies for Lithuania. Yet from the moment she

arrived at Oslo airport on Wednesday, Norway's centreright coalition government, the
parties of which are hosting
her trip, has sought to keep
her at arm's length. "The parties is the comment invited." ties in the government invited the Lithuanians here and now it seems they don't want even to touch them," one observer

The Lithuanian delegation had contacted neither the Norwegian Government nor any of the country's oil companies by late yesterday. Further, Statoil. the Norwegian state oil com-pany, believes Mrs Prunskiene is being "unrealistic" in seeking oil supplies because of problems involved in transporting oil from the Lithuanian port of Klaipeda, some 300 miles from the country's one refinery. Statoil cites two problems.

The pipeline from the port to the refinery is designed to carry petrochemical products, not crude oil, and the port with Norwegian tankers. Mrs Prunskiene's visit to Norway is turning into an embarrassment for Mr Jan Syse, the country's prime minister. Some observers believe his handling of the affair shows a lack of sureness in dealing with a sensitive

international issue.
Norwegian ministers persist in saying the Lithuanians are guests of the parties which comprise the government, rather than of the government itself a distinction proving somewhat confusing to the outside world, notably the Soviet

The Lithuanians are the sponsored guests of an umbrella organisation called Give Democracy A Chance In The East, a group set up in February by three constituent parties of the present Norwegian government - the Conservatives, Christian People's



Jan P.Syse, Prime Minister of Norway, welcomes Lithuanian Premier Kazimiera Prunskiene yesterday

organisations.

Party, and the Centre Party. The movement's aim is to offer financial and other help It springs from the Norwe-gian Conservatives' seeking to to emerging eastern European democracies. It offered backing strengthen their international activities. Some observers to Hungary's Democratic Forum in the recent elections believe it is intended to boost the falling popularity of the centre-right coalition, in power and to the Christian People's Party in Slovenia's recent consince last October. test. Right-wing parties in Czechoslovakia and Romania are also being helped by the group, which has so far raised

The invitation was sent on April 5, but unfortunately for Mr Syse and his centre-right colleagues, the Lithuanian crisis has escalated rapidly and Norway suddenly finds itself



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£100,000 for its project. Its invi-tation to the Lithuanians was

its first contact with Soviet

ELECTRONICS



FORKLIFTS



GARMENTS & TEXTILES



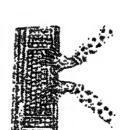
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INDUSTRIAL ROBOTS



JET PARTS



KEYBOARDS



LASER-CUTTING MACHINES



MICROCHIPS



NEGOTIABLE BONDS



OPTICAL FIBERS



PESTICIDES



QUALITY CONTROL



ROAD CONSTRUCTION



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VALVES



Worldwide Network



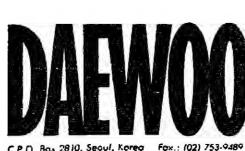
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technologically advanced in practically everything from A to Z. And at the rapid rate Daewoo keeps innovating, it might not be long before we have to invent a whole new alphabet.

HK says Chinese support for new airport is vital

By John Elliott in Hong Kong

HONG KONG'S plans to build an international airport as part of an ambitous 15-year HK\$127bn (£10bn) infrastructure construction programme could be put at risk if the colony's government fails to per-suade China officially to give its support.

This was tacitly admitted yesterday by Sir Piers Jacobs, Hong Kong's financial secre-tary. He said he was "entering a dialogue" with China because its support was "necesprivate sector financial and other participation in the proj-

The airport is urgently needed to replace the existing overcrowded Kai Tak airport which will reach saturation point within four to five years. It is estimated to cost HK\$35bn, plus HK\$20bn-HK40bn for associated trans-port links and developments, and is scheduled to open on reclaimed land in 1997 just a few months before Hong Kong

reverts to Chinese sovereignty.
But Peking's leaders including Mr Li Peng, the Prime Minister, and Mr Jiang Zemin, Communist Pary Secretary, have questioned the cost and Supposite visibility of the profinancial viability of the pro-jects and have called for detailed information. The Chinese leaders are also



HK\$127bn projects were of a package of controversial measures designed to boost confidence after June's Tianan-

men square crisis.
"We need support from China in that we need them to say they are happy with the project, " said Sir Piers. "My

talks have been with the New China News Agency (Peking's de facto local embassy) but I expect them to go beyond

He was looking for a "firm decision" from Peking and could not see why support should be witheld "when they see the whole package," There was no question of asking Peking for financial backing. In an apparent attempt to maintain substantial interna-

tional business interest, Sir Piers also claimed that "at a pinch" Hong Kong could build the airport from its fiscal reserves which total HK\$71bn. But he partially contradicted this when he also revealed that he had promised China that Hong Kong would be handed over in 1997 "with a viable international airport and full coffers." He said this meant "substantial reserves and a bal-anced budget,"

The government is now awarding the first of approaching 20 consultancy contracts to international companies and has also invited international groups to express interest in building and operating a HK\$6.50n associated suspen-

sion bridge or tunnel. Sir Piers said that studies showed that not building the airport would cost Hong Kong HK\$100bn by 2010 in lost busi-ness and economic growth.

Moscow seeks help on Kuriles

By Robert Thomson in Tokyo

THE Soviet Union will today

Mr Vladimir Petrovsky, the plans for the ecological and the Northern Territories,

"We are a little bit disappointed with the state of rela-tions with Japan. We have full diplomatic relations, but economic relations are lagging behind. We suggest as a

the General Agreement on Tar-iffs and Trade depends on a

successful outcome to the Uruguay Round of multilateral

trade negotiations and cannot substitute for a failure.

This point will be stressed in Puerto Vallarta, Mexico, today

by Mr John Crosbie, Canada's

Trade Minister, when he presents the plan to fellow minis-

The plan, which assumes that a successful Uruguay

Round would place extra responsibility on the Gatt, calls for the Geneva-based body to

be converted into a fully fledged world trade organisa-

Canadian officials say a cen-

tral element involves the cre-

ation of a more consistent and effective dispute settlement

system, replacing the variety of arrangements that currently span the Gatt and its subsid-

The new organisation would also be responsible for making

the world's trading system

more transparent, with a stepped-up scheme for surveil-lance of individual country pol-

This would help enhance its status relative to that of the

International Monetary Fund

and the World Bank.
Though the plan has met an

interested response from many

of the participants at the trade

ministers' meeting here, most feel that detailed discussion

should wait until after the Uru-

Canadian officials acknowl-

edge that discussions of the

proposal should not distract

from the substance of the Uru-

But they believe that thought should be given to the

effect on the trading system of the round's wide-ranging

The proposal on the dispute settlement would set a time

limit of 18 months for a deci-

Thus, the delays both in

establishing panels and in get-ting their verdicts adopted -

problems which have plagued

the present system - would be

porate a right of appeal against a panel decision, though the

The procedure would incor-

sion to be reached.

guay Round is completed.

guay Round negotiations.

iary codes of trade practice.

starting point the establish-ment of joint ventures in areas of mutual concern, " Mr

He said was hopeful Tokyo would be interested, although participation in such projects would amount to recognition of the Soviet presence on the four disputed islands.

Japan has refused to sign a peace treaty with the Soviet Union until the islands are returned and has hinted that a return could herald a flood of Japanese investment in the Soviet Far East. Mr Petrovsky said yesterday that joint ven-tures now could lead to broader agreement later on a

He said Moscow intends to play a greater role in Asia, and

lar, to develop "preventative

the far eastern port of Viadi-vostock as an economic centre, Mr Petrovsky said the govern-ment was still pushing Mr Mik-hail Gorbachev's plans to open the city, now the site of an important naval base.

S African deaths may halt talks with ANC

By Patti Waldmeir in Johannesburg

SOUTH African police shot dead four black youths and wounded about 20 during a demonstration in a black township yesterday, in an inci-dent that could jeopardise next month's negotiations between Pretoria and the African National Congress.

Black activists in Rammu-

lotsi township about 200km south of Johannesburg said four boys aged between 13 and 16 were killed when a peaceful march was stopped by a van load of policemen who opened fire on the crowd.

Police said the youths refused two requests to disperse and then began hurling stones at the officers.

Mr Nelson Mandela, deputy president of the ANC, last week warned that he would

call off negotiations due to begin on May 2 unless the government prevented incidents such as yesterday's shooting. In Cape Town Mr F W De Klerk yesterday reiterated his government's commitment to abolish apartheid legislation, but made clear the process of removing discriminatory laws could be lengthy.

In a cautious speech to a joint sitting of parliament in Cape Town Mr De Klerk outlined his government's plans for replacing the so called four pillars of apartheid - laws gov-erning segregation of public amenities, residential segrega-tion, ownership of land and race classification. He reiterated a commitment

given last year to abolish the so called Separate Amenities Act during the current session. But legislative proposals to replace the Group Areas Act, which governs residential seg-regation, would not be introduced before next year at the earliest.

Action on the Land Acts, which legislate ownership of land, would also not be imme-diate, he implied, noting that the acts would be on the agenda for talks with the ANC. He hinted that race classification legislation might be the last to be abolished

involve lengthy negotiation with black leaders.

Time is up for Taiwan's 'old thieves'

Peter Wickenden explains why old nationalists are being forced out

IME is up for the scores of gerontocrats who habitually snooze their way through debates in Taiwan's parliament if they are in a fit state to attend at all. It appears that the ruling Kuomintang (nationalist) party now means business in removing the 125 KMT memers of parliament who have been frozen in office for the last four decades without once

facing re-election.

Dubbed "old thieves" by the opposition Democratic Progressive Party, their attempts to prove that their forced removal s illegal are likely to prove

Application forms for retirement are to be sent to all of them, and if the oldest group does not fill them in and post them within six months, KMT officials will take the liberty of doing it for them.

Several said they would hang on to the bitter end despite heavy public opposition but most have indicated their villingness to step down.

KING Birendra of Nepal yesterday administered the oath of office as Prime Minister

oath of onice as Frime Minister
to Mr Krishana Prasad Bhattarai of the Nepall Congress,
ending 30 years of absolute
rule by the monarchy in the
Himalayan kingdom.

It was the culmination of a
long struggle for restoration of
democratic rights since 1960
when the country's political

when the country's political

parties were banned and a "partyless form of democracy" introduced. The struggle entered its final and most vio-

lent phase in February since when more than 200 people lost their lives in attacks by the

army and police during.

Mr Bhattarai heads an 11-

member coalition which

includes members of the

Nepali Congress, the Communist party, two nominees of the king and two non-party public figures. The Nepali Congress and the communists worked

together in the struggle for democracy and it now remains

to be seen how they function

The communists are part of

the government for the first

in the same cabinet.

Those affected by the retirement plan announced on ment plan announced on Wednesday range in age from the 70 years of the speaker Liang Su-jung to the 92 years of Chen She-wo, who "repre-sents" the people of Peking. Elected on mainland China in 1948 just before the national-

government lost a civil war to the communists, the old guard were kept in office after the regime moved to Taiwan.

The purpose of this was to justify the Taipei government's.

claim to be the sole legitimate Chinese government, but in recent years they have become a political millstone round the KMT's neck. In response to public dissatisfaction with Taiwan's inter-national diplomatic isolation and lack of local democracy, the KMT originally planned a complete rujuvanation of parliament by successive elec-tions, ending up in 1992 with a small parliament of 150 elected

But the KMT had not expec-ted public patience with the

Nepal ends absolute monarchy

KING BIRENDRA SWEARS IN PREMIER

old guard to run out as suddenly as it did in March. The outcry at attempts by aged members of the electoral college to increase their power over the legislature and quad-ruple their pay put the sur-vival of the KMT regime itself at stake for the first time since

Some analysts say that frustration with the rate of reform was heightened by the successive fall of socialist governments in Eastern Europe.

Upon his recent unnoppos re-election as president Mr Lee Teng-hui set the wheels in motion for the removal of those octogenarians who had voted him into office. His own position may well become sym-bolic if the island adopts a traditional parliamentary system of government after an emergency national conference to be held in June.

Even the DPP leaders now say they do not doubt the KMT's sincerity in bringing about radical reform, but members of both parties are still

Mr Bhattarai has retained

the portfolios of defence and foreign affairs himself. One of

his main tasks will be to finalise early agreements with India on trade and transit since the

lack of these for more than a year has seriously disrupted the Nepal economy. Talks on the agreements,

Talks on the agreements, including revision of a 1950 treaty in which a special relationship was agreed between the two countries, were held recently. Finalisation of the agreements was held up by the political upheaval in Nepal.

The often violent movement

The often violent movement for restoration of democracy

had mass support and King

Birendra was compelled to con-cede the formation of the all-party interim government fol-lowing attempts to storm the

royal palace a fortnight ago. That he gave in has enabled him to retain his throne. Inclu-

sion of two of his nominees in

the cabinet suggests the politi-cal parties wish to avoid a con-

can parties wish to avoid a con-frontation with the King who is worshiped by his Rindu sub-jects as the reincarnation of the god Vishnu.

calling for the law to be changed to make retirement of the old guard officially compul-

In an attempt to show gratitude and respect, the KMT will let the old-timers continue haunting the legislative building by giving them free use of its facilities. They are also to be made "advisors" to the

party.
Of parliament's 269 members, 139 were elected in main-land China in 1948, or appointed to replace those who died. Some 101 have been elected in Taiwan, and another 29 were appointed by the presi-dent to represent overseas Chi-nese communities.

Proposals are also being drawn up for the retirement of the 600-odd aging nationalists in the national assembly. But they will not be forced to retire just yet for the assembly itself may have to meet one more time after the emergency pational conference to vote for national conference to vote for its own abolition and the direct election of the president.

Colombo lifts emergency laws

THE government in Sri Lanka yesterday announced it was removing the ban on political railies and repealing other emergency laws in an effort to restore normalcy after years of violence, reports Mervyn de Silva from Colombo.

The move is also a response to mounting criticism from the

country's main opposition par-ties and from international and local human rights groups.

The Sri Lankan army and police said they were certain that the security situation in the (Sinhalese) south would continue to improve. In the Tamil north, the ceasefire between the government and the Tamil Tigers has not not been seriously breached.

NZ inflation falls

New Zesland's underlying annual inflation rate was between 4.4 per cent and 4.6 per cent at the end of March, reports Dai Hayward from Wellington. Mr David Caygill, Finance Minister, said the fall showed Labour's policies were producing results and should help cut interest rates, running at around 14 per cent.

present Japan with a plan for the joint development of the disputed Southern Kurile islands in an attempt to improve relations between the two countries.

deputy Soviet foreign minister, said yesterday he would reveal economic development of the islands, referred to in Japan as which Tokyo says were ille-gally occupied in the last days of Second World War.

Petrovsky said.

Ottawa's Gatt plan Hills avoids

binding.
Arbitration arrangements,

also binding, would be put in place to deal with cases where two countries disagreed about

the amount of compensation

an injured party could claim as a result of its right being vio-

Canadian officials believe cases involving compensation

The primary objective of the dispute settlement process

would still be to persuade an offending party to abandon the practice which had been found

to be illegal.

The dispute settlement system would be largely unified, covering all areas of the new

organisation's responsibility from trade in goods to services

and intellectual property right

protection.

This would in theory allow what are called cross-sanc-

tions, where countries who

have suffered injury, say, in the services area could exact compensation by withdrawing privileges from the offending

party's trade in goods.

However, the Canadian officials said cross-sanctions are

controversial.
Although they exist in

national laws, notably the US Trade Act, there would be

strong opposition from devel-

oping countries to the idea that

they might be denied access to

the textile markets of indus-trial countries if they refuse to

open their own markets to

Thus, the new dispute settlement system could not be fully unified and would have to

embody an element of flexibil-

This would be one area for further discussion, the officials

Another would be the ques

tion of how far the new organi-

sation should aim to attract a

might include even countries

with different economic systems, such as the Soviet

Though there are attractions

in having universal member

ship, there are also risks

because it could entail

watering down the basic

This universal membership

universal membership.

Union.

financial services.

depends on success

of Uruguay Round

CANADA'S PLAN to reform result of such appeals would be

By Peter Montagnon in Puerto Vallarta, Mexico

would like to establish improved "multilateral" ties

As for the development of

We have to remove a lot of the old structures and deal with a lot of agencies that have interests in the city," he said.

Tokyo clash

on amorphous

metal imports

MRS CARLA HILLS, US Trade Representative, has sidestep-ped a potentially troubling trade case over imports of

amorphous metals, while get-ting Tokyo to agree to immedi-

nese companies had duplicated

Development Corporation to spur development of a compet-

tive product. Japanese electric utilities, it claimed, were urged not to buy transformers containing Allied-Signal's

The Trade Representative's Office said the talks were "a means to find solutions, and

do not imply any judgment by either government on the facts of the matter."

Turkey approves

two car ventures

TURKEY'S cabinet has

approved two investment packages involving foreign car makers, Mr Mehmet Yazar,

government spokesman, said yesterday, Jim Bodgener reports from Ankara. The pro-jects, by Toyota and Peugeot/ Citroen, have combined invest-

ment costs of \$650m (£382m).

Toyota's local partner even-tually to assemble 100,000 commercial vehicles a year is Haci Omer Sabanci Holding.

Japan's Mitsut may take a 10 per cent stake. Peugeot/

Citroen's partners include Polly Peck International of the

UK, owned by Mr Asil Nadir, a

Turkish-Cypriot entrepreneur.

and Cukurova Holding.

WORLD TRADE NEWS

Canada upsets Cairns Group applecart

Proposal for tighter import controls angers fellow-exporters, writes Bernard Simon

Prasad Bhatarai: new era

The principal aim of the new

cabinet will be to make consti-

tutional changes to initiate

democratic reforms and rights.

Efforts are to be made to hold free elections within a year.

obviously attempt to protect his rights but there are indica-

tions that his powers will be severely curtailed. The Nepali

Congress has indicated he is soon to be made a constitu-

The King's nominees will

A the Cairns Group of agriculture exporting nations over a Canadian pro-posal to tighten General Agreement on Tariffs and Trade rules which provide for import controls to reinforce food supply management systems.

ate talks, Nancy Dunne reports from Washington. With the US under fire from ply management systems.

The proposal, tabled in Geneva last month, has high-lighted Canada's delicate position as the only big food importer in the Cairns group, whose 13 other members include Australia, New Zealand Appenting and Thailand its trading partners for unilat-eral actions, Mrs Hills con-vinced a New Jersey company, Allied-Signal, to withhold a petition against Japan. Instead, she promised to get a settlement within 150 days or let the company refile its com-plaint with no time lost for the land, Argentina and Thailand. Although Canada, as one of the world's leading grain exporters, enthusiastically sub-scribed to the group's original goal of halting the grain sub-sidy war between the US and the EC, its position has become increasingly uncomfortable, usual investigation.

Allied Signal, which filed the case in March, complaining it had been excluded from the Japanese market for electronic transformers using since the group has evolved into a "third force" to protect food-exporting countries' wider amorphous metal alloys, said it had taken 11 years to get a patent for its product in Japan, and in that time, Japa-

RIFT HAS opened in Round of multilateral trade the Cairns Group of negotiations. The chief aim of the group, whose members are all substantial food exporters, is to liberalise world trade in

agriculture.

An official of one member country described Canada's position on supply management as "unfortunate", especially since the group has tried to accommodate Canadian contents in the contents of th cerns in its own proposal that countries be allowed to main-tain internal support measures in accordance with any new

Gatt rules. The Canadian position on supply management - through production quotas and market-ing board control over-prices – is a response to much broader commercial and politi-cal pressures on the govern-ment of Mr Brian Mulroney, the Prime Minister. These include the US-Canada free trade agreement and concerns about the constitutional future

The proposal has highlighted Canada's delicate position as the only big food importer in the group

of Quebec, which is home to some of the most powerful supply-managed producers, notably the dairy industry.

Other Cairns members "recognise the political reality within Canada", the official said, adding that "our over-riding commitment is to get some sanity back into agricultural trade".

The Canadian proposal calls for a more disciplined approach to Article XI of the Gatt, which allows countries to control imports in support of domestic farm production or marketing control pro-In particular, Ottawa has

tion and severe limits on exports. A senior Canadian official said: "We're in a unique position in the Cairns Group. It's fairly easy to be facile about free trade if you're not a major importer.

not a major importer."

Besides sugar, horticultural items and some dairy products, Canada imports large quantities of processed foodstuffs, especially from the US.

The Canadians, who recently had their knuckles rapped by a Gatt panel for maintaining import controls on yoghurt and

to undermine curbs on produc-tion and marketing of fresh produce; and when a "reason-able and predictable balance" is maintained between coun-tries applying supply controls, and farm-exporting nations. Production levels would have to be set in advance, with stiff penalties for over-produc-

suggested that import quotes should be permitted only when uncontrolled imports threaten ice cream, insist that the new proposal would require signifi-cant sacrifice on their part, including a readiness to allow imports of some hitherto-ban-ned itams, such as butter. Among Ottawa's chief concerns is the provision in the free trade agreement eliminat-ing all customs duties between the US and Canada by early

> Without some other form of protection, Canadian food processors, whose raw materials come from high-cost domestic producers sheltered by farm marketing boards, are espe-cially vulnerable to competition from lower-cost US processors as tariff barriers are

dismantled.
Canadian food processors have been among the most vociferous opponents of the free trade pact so long as sup-ply-management systems keep prices high on their domestic inputs.

two countries' dispute over the liberalisation of Korea's beef market would be finalised

market, with South Korea

alleging improper sales activi-ties by US tobacco companies.

On protection of intellectual

within a week.

Areas of disagreement included the Korean cigarette

US steps up Asia aircraft drive US officials 'satisfied'

its technology.

It charged the government with organising and funding an amorphous metals group under the Japan Research and THE US IS intensifying its

efforts to win back market share in the Asian and Far East aerospace export market lost to European competition, European aviation officials

interests in the Uruguay

This is likely to have a bearing on the current round of negotiations between the US and the European Community on the civil aircraft code of the General Agreement on Tariffs and Trade (Gatt). EC and US trade officials are

due to hold further talks in Washington at the end of this month to try to reach a com-promise on the contentious issue of civil aircraft subsidies. European Aerospace officials claim there have been signs of a thaw in the entrenched position of the two sides in the Gatt aviation row, and that the EC and the US have been moving nearer compromise on interpreting the Gatt code's most controversial aspects.

The debate has centred on US charges that the European Airbus aircraft manufacturing consortium has benefited from unfair government subsidies, while Europeans have claimed the US has indirectly subsidised US aerospace manufac-turers including Boeing and McDonnell-Douglas. The two most controversial aspects of the Gatt code are Article 4 on civil aircraft subsidies and Article 6 on govern-ment inducements on civil air-

ment inducements on civil air-craft exports.

Both European and US aero-space companies have recently been saying they felt the time was now right for reaching a better understanding over the Gatt code. The improved busi-ness outlook for civil aircraft manufacturers has also taken some of the sting out of the some of the sting out of the long-running trade battle between the US and the EC over civil aircraft sales. But in recent months, a

trade battle has been heating up in the Far East and Asia, which is regarded as one of the most promising markets for future aircraft sales. Airbus has made some significant inroads in these markets during the past five years.

Airbus is believed to be furious at losing out recently on a large Japanese order for wide-body aircraft after Japan Airlines opted at the last minute for McDonnell-Douglas MD-11 trijets. European officials claim Japan came under pressure from the US to choose the MD-11

At the same time, Airbus is worried the US is trying to use the controversy in India following the crash of an Airbus A-320 last February, to press the Indian authorities to acquire Boeing 757 aircraft stead of A-320s.

Boeing was originally poised to win a big order from Indian Airlines in 1985 for Boeing 757 aircraft, but Airbus clinched the deal even though the US company had signed a memorandum of understanding. After the 1985 Indian Air-lines deal, the Gatt civil air-craft code turned into a burning issue. Airbus is also worried by US efforts to secure the support of Japan on US civil aircraft programmes such

as the Boeing 767 and the new Boeing 767X programme. Airbus claims the US is seeking Japanese commitments to buy American products to buy American products to redress the US-Japan trade bal-ance. It also claims the US is taking indirect advantage of Japanese government support for the Japanese aerospace industry through the participa-

tion of Japanese companies in US civil aircraft programmes. Boeing, for its part, has con-tinued to criticise European government subsidies to Airbus, and especially the West German Government's agree-ment to offer Daimler-Benz currency guarantees in its acquisition of the MBB aerospace group.

with Korea trade accords

US TRADE officials yesterday expressed satisfaction on the implementation of trade agreements with South Korea, John Ridding reports from Seoul. But they said a final decision on whether punitive sanctions would be taken, under the US Trade Act had still to be made. The US will deliver its decision by April 30.

Speaking after two days of talks, US officials said they were "generally very pleased"

were "generally very pleased" with the progress of various bilateral agreements. The talks covered a broad range of issues including agricultural market access and the opening of Korea's services markets.

The US side said they expected an agreement ending the several trade agreements.

property rights, the US said much progress had been made, but "there is still a long way to go, particularly in the areas of counterfeit and enforcement". Trade tensions between the two sides have eased considerably over the last year because of a sharp fall in South Korea's current account surplus with the US and the conclusion of

Japanese in NZ venture

NISSEO Iwai Corporation, the Japanese industrial group, Austrac, a small Australian Adspac, a small Australian gold exploration company, and Buller Minerals, a New Zealand mineral company, are going ahead with joint venture plans for a NZ\$130m (\$45m) writes from Wellington.

Output from the proposed plant, which will produce 100,000 tonnes a year, will be exported to Japan. It will also produce 60,000 tonnes of pig iron a year.

Construction costs will be plans for a NZ\$130m (£45m) titanium slag planf at Westport, on the west coast of the South Island, Dai Hayward and Buller Minerals 10 per



among the disparate countries in the region, and, in particu-

will open Vladivostock, but if President Gorbachev gives his word, it will become a reality.

"I cannot tell you when we

Mr De Klerk has long made clear the process of abolishing apartheid legislation would



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AMERICAN NEWS

Recycling looks bad on paper Louise Kehoe discovers a paper glut in California

his week's celebration of Earth Day has focused international attention on environmental issues and in particular upon the need to reduce the huge volume of garbage generated each year by ordinary house-

holds and businesses.
In California, the birthplace of the Earth Day movement, recycling of paper, which represents close to 40 per cent of domestic waste material is, however, becoming an increasingly difficult challenge.

Over the past few years paper recycling has become as much a part of the California lifestyle as sunscreen and health food. California leads the US in the collection of waste paper. Recycling bins where newspapers, magazines, cardboard boxes and other paper can be dumped are to be found throughout the state on street corners and in parking lots. These bins are regularly emptied by boy scout or simi-lar groups who use the paper collections to raise funds.

Saving trees and protecting the environment are not the only motives behind the recycling. In a state where garbage collection is typically not a tax-supported service and householders pay according to the volume of rubbish that they generate, the paper bins also represent a way to cut household bills.

legislation. late last year, which requires cities and counties to recycle 25 per cent of their waste by 1995 and 50 per cent by 2000, recycling has also become virtually mandatory.

legislation was prompted by the growing problem of waste disposal. Californians generate some 40m tons of garbage a year and more than 90 per cent of the solid waste is sent to landfills or incinerators. The state is running out of landfill space, and the air pollution caused by incinerators is of growing con-

In efforts to increase recycling, many communities have recently introduced curb-side collection services. Each household is issued with bins (made of recycled plastic) in which to place glass, aluminium and paper waste, which represents by far the highest volume of recycled material volume of recycled material.
The willingness of Califor-

The willingness of Californians to recycle their old newspapers has, however, highlighted a growing problem throughout the US. There is now a huge glut of used newsprint in a shrinking market.

A ton of used newsprint that sold for about \$100 a year ago now sells for about \$5.

Some California recyclers are removing their newspaper

are removing their newspaper bins from the streets and operators of the pick-up services ousehold bills. are seeking higher fees to off-Since the passage of state set the reduced value.

Some communities have had some communities have had to pay for the disposal of their "recycled" newspapers in out of state landfills. Others have managed to find a market for the paper outside the US.

In a measure designed to stimulate the domestic market for recycled paper, the state has passed legislation requir-ing California newspapers to recycled newsprint for a quarter of their papers by 1991 and for half by 2000. But California's strict rules

on what constitutes "recycled" paper are making it difficult for anyone to comply with the new laws. Few US paper mills have the capacity to manufac-ture paper that meets the California standards. Although many paper pro-

materials, the vast majority use only the clean scraps from envelope manufacturers and other paper goods producers.

Among consumers who had fondly imagined that their recycling was contributing to the environmental effort, it has come as a bitter disappointment to learn that the US

ducers claim to use recycled

paper industry is not equipped to make use of its waste. Environmental groups are however urging Californians to continue to recycle paper in the hope that alternative uses such as packaging materials and building materials will eventually expand to consume

US hostage reception prepared

reception team to West Germany in case a Lebanese group fulfils its promise to free an American hostage, but Washington still has no assurance that will happen, the White House said yesterday, Reuter reports from Air Force One.

Reporters with President George Bush, flying to a meet-ing with President François Mitterrand of France in Flo-rida, were told that the State Department had sent the team to Wiesbaden, "where they have the medical facilities. We have statements of imminent release from Islamic Jihad and from Syria, but there's no way for us to know conclusively that it's going to happen."
The US has experienced a

number of false alarms on hostage releases.

The pro-Iranian Islamic Jihad for the Liberation of Palestine (IJIP) said on Wednesday it would release one of three US academics as a goodwill gesture and in response to calls from Tehran. Eight Americans among 17 foreigners are held by various groups in Lebanon.

The White House also said Mr Edward Djerijian, US ambassador to Syria, has been sent to Damascus from a meeting in Bonn further to prepare for a possible handover of a

number of false alarms on hos-

for a possible handover of a hostage to Syria.

Washington to trim forces in Asia

THE Bush administration yesterday announced plans to withdraw up to 15,000 US troops from Asia within three years, and more later, thereby turning the main defensive role in South Korea over to Korean year to Korean years bush and of the century Report of the cent ean forces by the end of the century, Reu-

ter reports from Washington.
However, Mr Paul Wolfowitz, US Undersecretary of Defence, said the troops would be cut cautiously to avoid sending "a false and dangerous signal", particularly to North Korea, of US withdrawal from Asia. "North Korea remains one of the most reckless and dangerous actors on the

international scene," he told the Senate Armed Services Committee.

The Under-secretary also told the committee that the Usadministration planned to cut 7,000 troops from the 44,400 in South Korea over the next three years; 5,000 to 6,000 from the 50,000 in Japan; and 2,000 from the 14,800 in the Philippines.

This would trim up to 11 per cent from the 135,000 US troops in Asia — including 25,800 on ships — by the end of 1992, he

If dangers had not increased by 1995, more US troops would be cut by then and, more US troops would be cut by then and, after another reassessment, more would be cut by the end of the century, he said.

"In Korea, we anticipate that, by this time, the US forces will be clearly in a supporting role, with the South Korean military in a leading role on the peninsula," Mr Wolfowitz said.

Even so, the US would watch North Korea at each step, he went on, hecause

Korea at each step, he went on because Pyongyang was continuing to modernise its large military force and "we are also very concerned about North Korea's

nuclear programme."

US officials have said North Korea appears to have a facility for separating plutonium from uranium, a step towards

production of nuclear weapons . Mr Wolfowitz also said uncertainty about succession to the ageing North Korean President Kim Il-sung "could lead to great instability, including the use of military force or terrorism."

tary force or terrorism."

He said the US personnel cuts in South Korea by the end of 1992 will include 5,000 ground troops and 2,000 air force people.

The 5,000 to 6,000 US troops coming leaving Japan will include troops from Okinawa as excess US facilities there are returned to Japan, he said.

nawa as excess US facilities there are returned to Japan, he said.

However, a US aircraft-carrier as well as airlift and strike forces would remain in Japan in the next century, he said.

Mr Wolfowitz said the reduction of 2,000 US troops in the Philippines would not diminish the major US operations there, assuming current negotiations were to result in US bases remaining in the Philippines.

Output imperilled at Mexican Ford plant

market.

PRODUCTION at Ford's motor assembly plant at Cuautitlan in Mexico looked set to grind to a halt again yesterday, fol-lowing a shutdown of nearly five months at the beginning of

this year.

Dissident workers said that the whole labour force would strike after the US-based transnational company's alleged refusal to re-hire 700 workers dismissed in January.

The confrontation between the Confederation of Mexican Workers (CTM), which is an adjunct to the ruling Institutional Revolutionary Party, and a breakaway union faction at the Ford factory has been an embarrassment to the Mexican Government in its drive to

attract foreign investment
Workers who have been
taken back by Ford at Cuautitlán are also objecting to the
hiring of new employees
recruited by the CTM.
No immediate comment was

available from Ford yesterday. The company has said that it will only deal with the CTM at the plant, which concentrates on production for the domestic

objective of resuming full promarket.
The continuing saga at Cuautitian has proved a severe test of the leadership of Mr Fidel Velasquez, veteran leader of the CTM, who will be 90 next month, and his ability to keep the union rank-and-file in order. Another his sethack for duction just after last week-

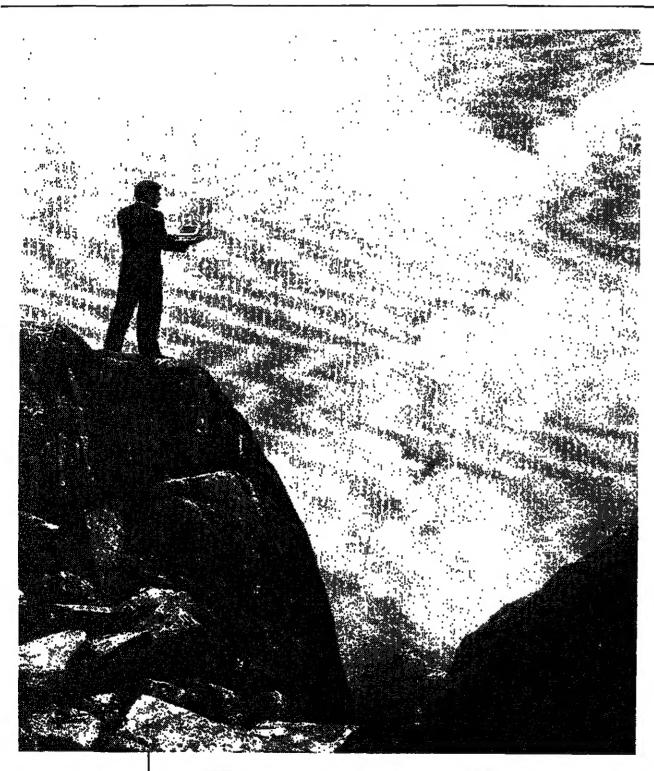
end.

The company, however, has always reserved the right to re-hire on a case-by-case basis, with the implication that it would not take back alleged trouble-makers, especially five activists dismissed last year and held responsible for the breakdown in labour relations.

The Cuautitlan plant dispute came to a head on January 8 when CTM loyalists attacked dissident workers, killing one

order. Another big setback for him has been a prolonged work stoppage at the Modelo brewey in Mexico City. In Mexico City.

Under an agreement mediated in early March by Mr Arsenio Farell, Labour Minister, workers were to be rehired through the CTM with the and injuring seven others.



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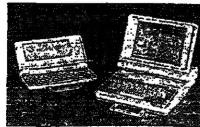
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Industry cleans environment to tune of \$32bn a year

IN THE past 20 years, US industry has spent an average \$32bn (£18.8bn) a year on envisozon (218.80n) a year on envi-ronmental improvements, con-tributing almost two-thirds of the \$1 trillion (million million) spent in that time to cut US pollution, a new study says, Nancy Dunne reports from Washington

The report, by the National Association of Manufacturers (NAM), said total environmental spending grew from \$20bn a year in 1972 to \$80bn; with industry bearing about 60 to 65 per cent of the cost.

Before Earth Day on Sunday, industry leaders were self-congratulatory on progress in cleaning the US environment. Having resisted much of the clean air/clean water legislation of the past 20

years, they acknowledged "sig-nificant economic growth" had been achieved, despite costs. Mr Alexander Trowbridge.

chairman of NAM's Coalition for the Environment, said that, 20 years ago, "we had an awful lot of rhetoric and exaggerations on both sides". Environmentalists had

claimed that, by the early 1980s, urban dwellers would be wearing gas masks.
But the study found impor-tant advances in environmental cleansing. Carbon monoxlde emissions were 60 per cent lower in 1987 than in 1970; industrial CO emissions had

been halved. About 74 per cent of 370,000 miles of river surveyed met clean water standards, with 19 per cent partly meeting them.

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FINANCIAL TIMES
EUROPE'S BUSINESS NEWSPAPER

Mexico and US clash over anti-drug actions

MEXICO on Wednesday warned the US that it could withdraw bilateral cooperation in drug enforcement over the manner in which a Mexican to the drug problem.

The Mexican attorney general told the US official that it. suspect was taken to the United States, AP reports from

The Government said Mexican Attorney General Enrique
Alvarez del Castillo told US
Attorney General Richard Thornburgh joint efforts in the fight against drug trafficking would be endangered if it is proved that Dr Humberto Alvarez Machain was kid-

napped.
Mr Machain, a suspect in the 1985 torture-slaying of US drug agent Enrique "Kiki" Camarena, appeared April 3 in the US under unclear circumstances. Because of news reports that Mr Alvarez Machain, gynecolo-gist, was kidnapped by either Mexican police or bounty hunt-ers, Mexico announced on Tuesday that it was asking the Tuesday that it was asking the US State Department "about the location and conditions in which Mexican citizen Dr. Humberded."

was apprehended."
Mexico's Congress also opened an investigation into the case on Tuesday.

Mr Alvarez del Castillo and

eral told the US official that it is the exclusive province of Mexican authorities to fight

Mexican authorities to fight narcotics trafficking in all its forms within its own territory," a statement by the attorney general's office said.

"If it is proved that the suspect was kidnapped and illegally taken to the United States by authorities of that country, it endangers the bilateral cooperation in the fight against drug trafficking, which against drug trafficking, which until now have been excel-

lent," the statement said. Mr Thornburgh informed his counterpart that he had ordered an investigation into the case. Some news reports have

some news reports have alleged that Mr Alvarez Machain was kidnapped by bounty hunters seeking a \$100,000 bounty allegedly offered by the US Drug Enforcement Agency.

Mr Alvarez Machain, one of 19 people accused by a Los Angeles grand jury in the Camarena case, was arraigned earlier this month by DEA offi-cials in Los Angeles.

Nova Scotia raises fear of secession in Canada

By Bernard Simon

NOVA SCOTIA'S Premier. Mr John Buchanan, has raised the spectre of Canada's four eastern provinces joining the US, if tensions over the future of province to secede from the rest of the country.

In a comment intended to bolster support for the contro-versial Meech Lake constituversial meech Lake constitu-tional accord. Mr Buchanan predicted that it would take about a decade for the Atlantic provinces – Nova Scotia, New-foundland, New Brunswick and Prince Leward Island – to move towards the US.

move towards the US.

The four provinces are geographically separated from the rest of Canada by Quebec.

In the event of Quebec opting for some form of independence, "we'd be really the rump of Canada," Mr Bucharons of Canada," Mr Bucharons of Canada," Mr Bucharons of Canada,"

rump of Canada," Mr Buch-anan said.

Increasingly strident warn-ings have surfaced in recent weeks of the political and eco-nomic impact of a collapse of the Meech Lake accord, which recognises Quebec as a unique part of Canada and gives it the constitutional right to preserve constitutional right to preserve and promote its distinctive-

Competition urged for US overseas calls

Hugo Dixon and Roderick Oram speak to the Federal Communications Commission

ith sharply worded testimony to Congress and the launch of a study into competition in US long-distance telephone services. Mr. Alexed Silver her vices, Mr Alfred Sikes has recently begun to assert his authority as chairman of the Federal Communications Com-

The US is in danger of losing its position as the world leader in telecommunications, he told congressmen earlier this month, unless regulation is eased so groups such as the Bell telephone companies can provide the panoply of services demanded by users.

He also urged Congress to wrest crucial elements of telecommunications regulation back from Judge Harold Greene, who oversees the legal settlement which broke up American Telephone and Tele-graph and created the Bell companies in 1984.
"National communications policy should be made by Con-

gress, and the agency it estab-lished to implement that policy - the Federal Communications Commission. Federal It shouldn't be devised and implemented on a day-by-day basis by the courts," he said. Mr Sikes is well known around Washington as a dere-gulation advocate since his 3% years as head of the Commerce Department's telecommunica-

appointment to the FCC. But he had taken a low profile for his first seven months at the

Taking a step towards the goal of freer markets, he launched last week a study of competition in long distance telephone services. The result-ing changes should give AT&T more flexibility in how it sets

now entered the second stage of the Information Age. During of the information Age. During the first stage, information services consisted of two types: the basic phone service, which was dominated by AT&T; and television, dominated by CBS, NBC and ABC. The FCCs role was essentially to prevent the dominant networks from abusing their position. ing their position.

Now, in the second stage, there are many different information services and an

increasing number of entrepreneurial companies providing them. Given this environment, Mr Sikes believes the FCC has to take a more dynamic role, otherwise there is a danger that progress will be held back. In a recent interview, Mr Sikes defined four priority areas in which he believes the FCC should take more of a leadership role. The first pri-ority is to "provide a regula-tory environment that fosters competition." His second priorterms not domestic terms," he

ity is to use the radio spectrum

bidders for all services apart from broadcasting.

Mr Sikes' third priority is to increase the FCC's interna-tional profile. "I want an FCC that thinks in international

better than in the past.

Thus, one of his first acts as chairman was to open a special office within the FCC for inter-

national affairs. He is con-cerned lest US companies are prevented from being agile in international markets by restrictive regulations at home. He is also keen that foreign countries should open up their markets to US companies and that the US deficit in telecommunications services, which

reached \$2bn last year, should start improving.
Mr Sikes' fourth priority area is to "eliminate rules that are obsolete", which is his cau-tious way of saying that he wants control over the Bell operating companies shifted

from Judge Greene to the FCC.
Judge Greene's policy of preventing the Bell companies from carrying information and entertainment services over One idea that appeals to him is a system of "pioneer preference", under which entrepretheir networks, from manufac-turing their own equipment neurs who come up with inno-vative uses for the radio and from competing in the long-distance market, has sharply divided the US telespectrum would get preferen-tial treatment when it came to communications industry into the "have nots", the regulated Another idea is to auction off the radio waves to the highest public networks, and the "haves", the unregulated pri-

> Mr Sikes believes that the interests of entrepreneurs and the established operators have to be balanced. If the entrepreneurs fear they are going to be stifled by the Bell companies the economy loses their talents and energies; but, if the established companies are shut out

is denied their huge resources. Mr Sikes therefore advocates a system of "Open Network Architecture", which would allow rivals to get access to the Bell networks on a non-discriminatory basis.

In return, the Bell companies should be allowed to provide information services and to act as a common carrier for television programmes. Mr Sikes, though, has a tricky political task ahead of him in redefining the role of the FCC. Fortunately, his reputation as a good listener and a man with powerful political patrons will stand him in good stead. He also has industry credentials. Before his pursuing a Washington career, he was owner or partner in five radio stations in his home state of Missouri.

There has certainly been a dramatic shift over the past decade in attitudes towards telecommunications liberalisa-tion. The UK is now firmly on the path towards deregulation. West Germany and Japan have taken important steps, and even France has shown itself willing to modify its regulatory

This means that the FCC might be more effective in opening up foreign telecommunications markets if it were to harness the energies of poten-tial allies abroad in a joint assault, instead of banging on

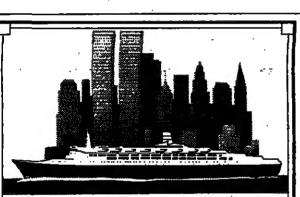
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Government confident immigration plan fulfils duty to colony

Big revolt on plans for Hong Kong

THE UK Government dle last night despite the prom-yesterday faced one of the big-ised revolt. Mr David Waddinggest revolts by its own support-ers since 1979 as it pushed ahead with its plans to give full British citizenship to up to 225,000 people in Hong Kong to

secure stability in the colony.

During a key debate in the
House of Commons, Mr Norman Tebbit, a former party chairman, warned that the nationality plan risked triggering social upheaval among racial minorities in Britain and would fail in its purpose of underpinning confidence in Hong Kong.

The opposition Labour Party

also attacked the measure, claiming that it was designed to help an elitist minority. Mr Roy Hattersley, the Labour Home Affairs spokesman, said that his party would focus instead on promoting democ-

racy in the colony.

Mr Tebbit said that it would overturn the Government's binding commitment during 11 years in office to prevent fur-ther large-scale immigration. Amid confidence among ministers, however, that the legis-lation would clear its first hur-

By Rachel Johnson

terday.

INVESTMENT in UK equities

by the institutions is at its low-

est level for seven years, while

investment overseas has risen

by an unprecedented £14.7bn, the Bank of England said yes-

It acknowledged that the

steep outflow of funds from the UK to overseas companies

made financing the UK's £20bn

current account deficit more difficult because it added £14.7bn to the financing

the time of a large current account deficit makes finding

£20bn to balance the books

Mr Mark Brown, a market strategist at UBS Phillips and

Drew, said that the full-year

figures emphasised both inves-

tors' mistrust of sterling and

appreciation of more buoyant overseas markets during 1989.

the Bank said.

Large capital outflows at

requirement overall.

ton, the Home Secretary, said that the measures would both fulfil Britain's duty and serve its own national interest.

In a strong speech which gave no hint of his previous misgivings about the legislation, Mr Waddington said: This is a case, if ever there was one, where duty and national interest march hand in hand".

Dealing with the criteria

under which the 50,000 heads of household in key professions will be allowed right of abode in Britain, he insisted that the plan would anchor key groups in Hong Kong rather than encourage them to come to The expectation last night

was that the Government would lose the support of 50 or more Conservative MPs, but its confidence that it would win the key vote was bolstered by a number of factors. Mr Paddy Ashdown, the Lib-

eral Democrat leader, said that his party would reluctantly support the proposal, while a number of Labour MPs were

"You have got to give them credit for putting their money overseas. Germany did very

However, the fact that 40 per

cent of institutions' cash flow

went into overseas equities

was not sustainable, he said. The Bank said there had

been a "marked recovery" in

total investment since the

in 1989 were:

a substantial net disposal of

26.40n UK Government securi-

ties, or gilts, reflecting the repurchase of stock by the authorities during the year and

lack of new issues available for

investment. However, in the

fourth quarter, the institutions collectively became net buyers of gilts for the first time since

the beginning of 1988.

• a doubling of the flow of funds into land and fixed

Major features of investment

stock market crash in 1987.

well last year," he said.



Sir David Wilson

Institutional interest in UK equities at lowest level for seven years

Overseas investment rises to new high

said to be unwilling to vote with the Tory rebels.
Mr Tebbit, who said that his opposition to the bill would mark the first time he had voted against the Government, said Britain was already "over-crowded" and faced a hard enough task in integrating existing immigrants without SIR David Wilson, Britain's governor of Hong Kong, said

assets in the UK to £1bn in the

exceptional net inflows into

£4.8bn in the third quarter of

last year, after £2.9bn in the

previous quarter. The Bank

said this probably reflected the public's increasing interest in buying personal equity plans

through life assurance compa-

• Andrew Marshall, Econom-

ended last fiscal year with a better financial position than

had been expected in the most

recent budget, though much below last year's forecasts.

Repayment for 1989/90, which ended in March, was £8.0bn. up

from £7.0bn forecast by the

Treasury at the time of the last

budget. The Public Sector Bor-

rowing Requirement for the

month of March was £1.6bn,

The Public Sector Debt

ics Staff, adds: The government

ong-term insurance funds of

fourth quarter of 1989.

to persuade China to recognise that the British passports scheme was aimed at creating a "prosperous and stable Hong Kong, not just up to 1997 but after as well," adds John Elliott in Hong Kong He was aware of China's

he hoped "in time" to be able

"suspicions" and said it was necessary to show that everything possible was being done by the UK and Hong Kong to make the territory a success.

China has repeatedly made it clear in recent months that it suspects the UK is trying to "internationalise" Hong Kong after 1997 by issuing British passports and by encouraging other countries to do the same. Sir David also said he did not accept the Labour Party's claims that the passports scheme was "elitist." The scheme had to be selective because 50,000 families had to

Giving passports to that 50,000 would however "affect the livelihoods of everyone in Hong Kong" because it would help to keep the colony run-ning.

though financial markets had

expected it to be £2.5bn.
The £8bn surplus compares

with £14.5 bn in 1988-9 and

£3.4bn in 1987-88. The Treasury

forecasts that the PSDR exclu-

ding privatisation proceeds will be £1.9bn this financial

year, giving a total PSDR of 27bn. But the forecasts, which are the difference between two

very large numbers, are nor-mally subject to a wide range

The principal reason for the

better than expected figure

was that borrowing by local authorities in March was lower

than forecast, at 0.9bn for

March and £1.3hn for the year.

This accounted for approxi-mately 0.6bn of the difference.

The increase had little effect

on the markets, which are

looking at this year's figures to

see if the government can

of error.

BRITAIN IN BRIEF



Thatcher blames gun contractors

Mrs Margaret Thatcher yesterday appeared to lay the blame for a two-year delay in identifying an export order for steel tubing as part of an iraqi project to build a long-range gun squarely on the shoulders of the two British contractors.

As the political furore surrounding the "super-gun" intensified, the Prime Minister said that it had been the responsibility of the two companies — Sheffield Forgemasters and Walter Somers - to apply for export licences for the equipment. Her explanation was flercely

attacked by Mr Neil Kinnock the Labour leader who insisted that the Government had to bear responsibility for failing to heed repeated warnings about the nature of the deal. • Space Research

Corporation, the Belgium-based company cused by British officials of masterminding the manufacture of a large gun for Iraq, announced yesterday that it was ceasing operations. The move follows the murder

last month of Mr Gerald Bull, the Canadian artillery expert who founded SRC. . MoD lacks

information The Ministry of Defence continues to buy equipment without adequate information on the cost of keeping it in service, according to a report yesterday by the Commons Defence Committee.

Unreliable equipment is reckoned to cause unplanned costs of more than £15n a year. The MoD has indicated that about half this could be saved over a period of between 10 to 20 years, but that tighter

contracting practices would themselves cost money.

The committee warned that much of the information on

which procurement decisions were based would remain inadequate until better means were developed for estimating life cycle costs. Unexpected support costs

caused by unreliable equipment are reckoned at £650m a year for the Royal Air Rorre and £250m each for the Royal Navy and the Army.

Charge costly to implement

The Community Charge will cost twice as much to administer as the rates,

administer as the rates, according to a survey published yesterday by the Institute of Fiscal Studies. The report also predicts that the high administration costs will continue, and that the poll tax will be shown to be inherently expensive to implement.

implement. Researchers based their study on detailed questionnaire results received from 198 local authorities in England and Wales.

Wafting to work

Dank smells emanating from tunnels and unpleasant pongs from travellers crushed together in the rush hour are being masked by more pleasant fragrances on the 148-year-old East London underground line.

Commuters are wafting to work in fragrance-filled carriages, as part of an experiment by London Underground.

Tube managers say the seven scents - described as 'lemon, sea fresh, mandarin, hyacinth, rose, cool water and wood" - are intended to reduce stress and bring on feelings of well-being among commuters who make six million journeys a year on the line.

Prison riot wears on

The last seven rioters at Strangeways prison in Manchester are holding out behind barricades and booby traps, fire bombs and sharpened scaffold poles, a

As Britain's longest prison protest entered its 19th day, Greater Manchester police authority estimated the containment cost in overtime for more than 2,000 officers at "around Elm".

Welsh assembly not priority

The Labour party's promise of an elected Welsh assembly as part of its reorganisation of local government in England and Wales will not be a top legislative priority if the party wins the next General

Although Labour has committed itself to the creation of devolved government for Scotland in its first session, Mr Barry Jones, Shadow Secretary for Wales, conceded in Cardiff yesterday that health, housing and the poil tax would be more pressing. Labour would however,

transfer the Welsh Office's f4bn budget to an elected assembly, although it would not have have powers to raise revenue or make laws.

Sell-off criticised

A former Royal Observatory site could have raised millions of pounds more than its eventual sale price, an independent Government spending watchdog said yesterday.

A National Audit Office report said officials did not do enough to ensure they received the best price for the 370-acre site at Herstmonceux Castle, East Susser

The report said the observatory site's owner, the Science and Engineering Research Council, accepted a bid of £8.1m before it fully investigated another bid of

Minister for London

London needs its own minister to tackle the city's deficiencies and safeguard its world status, Lady Porter, leader of Westminster City Council, said

yesterday. Her remarks followed the launch of a personal report in which she urges the Government to create the new post citing litter; crime and transport as primary reasons for a London minister.

Ruling due for Manx case

The preliminary hearing in the Manx High Court of the Savings and Investment Bank trial was adjourned yesterday until and the court will reconvene on Wednesday when Mr Thomas Field-Fisher, QC, the deemster judge, will rule on whether the trial should proceed.

Defence lawyers have argued that delays in bringing prosecutions have been so great that the trial should not be dropped. Mr Field-Fisher has ruled that Mr Victor Gray. one of the defendants, should not have to face trial at present because of ill health. Mr Gray and seven former directors, officials and agents of the SIB face seven charges arising from the bank's collapse in 1982.

Prince issues warning



The Prince of Wales yesterday warned business leaders it was "positively reckless" to walk away from the needs of the inner cities.

In a foreword to a report on the economic regeneration of inner cities, he said local communities need to be nurtured and equipped with the best education and training

The interests of shareholders are best served by creating a culture which is supportive of business, the Prince wrote. The report, Leadership in the Community - A Blueprint for Business Involvement in

the 1990s, prepared by the influential Business in the Cities group, concluded that regenerating such areas is an "absolute necessity" for the economic survival and prosperity of Britain.

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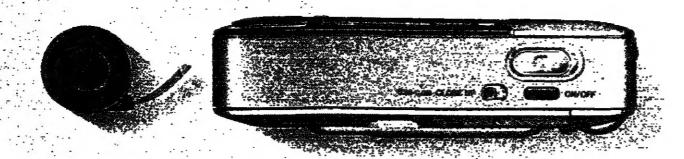
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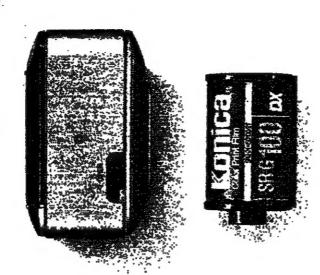
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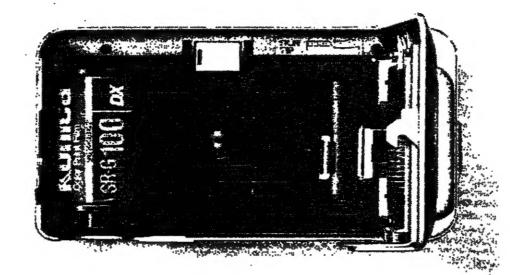
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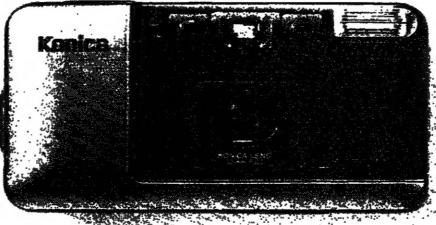






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UK NEWS

Estate agents face legal curbs on sales abuse

By David Churchill. Leisure Industries Correspondent

TOUGHER controls on rogue estate agents are to be brought in by the Government before the end of the year in an attempt to curb widespread consumer concern about unethical and dishonest estate

agents. The controls announced yesterday by Mr Eric Forth, Consumer Affairs Minister, and follow a report and recommendations last month from the Office of Fair

Mr Forth said that he was accepting the OFT's recom-mendations in full to establish a selective package of statutory controls within existing legisla-

Mr Forth added that he was disappointed that estate agents had not been able to agree a voluntary code of practice rather than facing legal curbs. Relevant sections of the 1979 Estate Agents Act are to be which, if flouted, could lead to an estate agent being banned

from operating.

New offences would include wrongly describing a property's details, putting pressure on buyers to buy insurance, failing to disclose personal interest in properties, and falsely claiming higher bids on a property.

Former Hilton chief buys hotels

Allied-Lyons to sell Embassy chain for £202m

ALLIED-LYONS, the food and drinks group, yesterday agreed to sell its Embassy Hotels chain for £202m to Jarvis up last month by Mr John Jarvis, former chairman and chief executive of Ladbroke's Hilton International operations.

The sale is conditional upon

the successful financing of the acquisition by Jarvis Hotels, which will pay £162m in cash and the remaining £40m through a guaranteed loan note, bearing interest at 5 per cent a year, and repayable in

Mr Jarvis said yesterday that he was talking to a number of interested institutional inves-

Embassy operates 41 hotels, with some 3,150 bedrooms, in London and many provincial cities. In the year ended March, 1989, it made trading profits of £9.4m on a turnover of £57.6m. Its net assets then were estimated at £78.8m.

Allied put the hotels up for sale last December, deciding after an extensive review of corporate strategy that they could not be included in the core development businesses.

The proceeds of the sale will be used to reduce Allied's debt - estimated at around £2bn after the acquisition of the

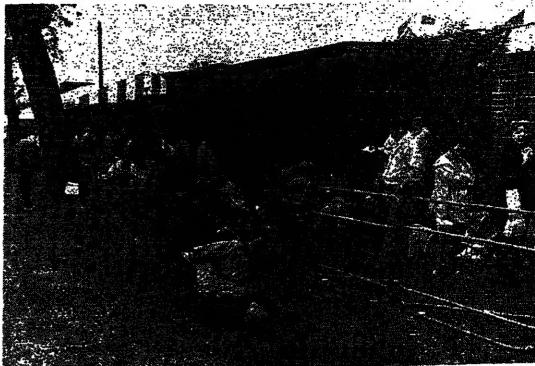
Whitbread spirits business for £545m four months ago. Mr Richard Martin, Allied's executive, said the dea would cut the group's gearing from 82 per cent to 72 per cent. "After some hard bargaining we believe we have arrived at a mutually beneficial deal," he added.

£60,000 a room, is at the lower end of analysts' forecasts but reflects the large number of hotel groups recently on the market. Bass put its Crest chain of 47 hotels up for sale

Mr Jarvis, who left Ladbroke in February to form his own hotel business, and has since been joined by another former Ladbroke executive, Mr David Thomas, said: "I think we have paid a realistic price in the present market conditions.

Ticket touts win tacit approval from Government





The haves and have-nots: demand for seats at Wimbledon makes business profitable for the ticket touts, who find ready customers in the queue oniside

By David Churchill, Leisure Industries Correspondent

FOUTS who sell tickets at sky-high prices for the Wimbledon Lawn Tennis Championships, and other major sporting and cultural events were yesterday given the Government's seal of

Lord Strathclyde, Tourism Minister, said: "There are dangers inherent in restricting what many would see as perhaps unduly limiting the scope of genuine ticket agencies to operate." The decision will dismay tourist organisations and organisers of major sporting events who had hoped the Government would take some action against touts who sell tickets for many times their face value.

Lord Strathclyde, however, said that it was up to organisers of events to ensure that their tickets did not lead

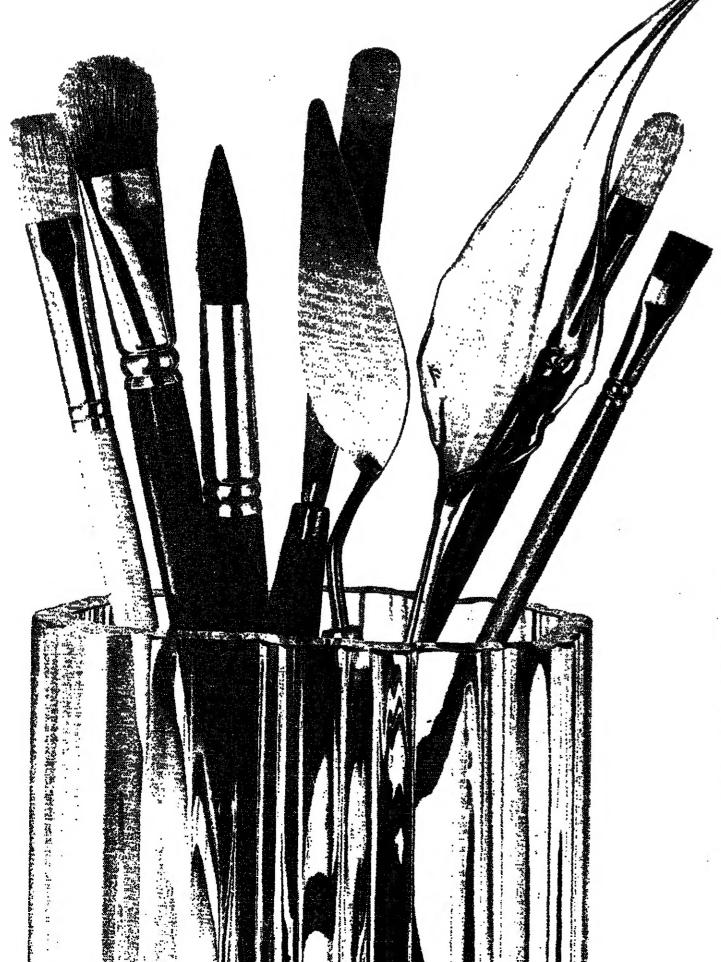
onto a black market.

He cited the Wimbledon tennis authorities as an example of a sporting

touts for football matches were likely to be dealt with differently as a result of the Taylor.

Lord Strathclyde said that Mr David Waddington the Home Secretary was at present considering Lord Justice Taylor's recommendations to limit ticket touting at football matches and at the Wimbledon tournament.

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Fire chiefs propose integration with ambulance service

Emergency services may look to Continent, US

By Alan Pike, Social Affairs Correspondent

INTEGRATION OF the emergency ambulance service with the fire brigade to form a with the life brigate to form a single organisation was proposed by Britain's chief fire officers yesterday.

The proposel would structure the British emergency survives on a partition which is

vices on a pattern which is common elsewhere in Europe and in the US.

It forms part of a growing debate about the future of the ambulance service after the recent long industrial dispute and in the face of impending National Health Service

Health authorities found own way to hospital during the dispute, and some are now reviewing the extent to which they need to use ambulances for non-urgent cases. Ambu-lance services in parts of the country already use private taxis and coaches for much of their non-emergency work, and this trend is likely to increase as next year's NHS reforms force authorities to seek the most economic means of trans-

The Chief and Assistant Chief Fire Officers' Association said yesterday that if it made good economic sense for health service managers to separate regular operations from the emergency service "the logical position for emergency ambu-lance work would be with the

fire service." Mr Brian Fuller, chief officer of the West Midlands Fire Service, said that if a considerable amount of ambulance work-were lost to the private sector it would make it more difficult for the surviving emergency ambulance service to have its and other facilities.

Integration into a single organisation could increase efficiency and offer the public a better service. And if the EC eventually adopted a standard structure for emergency services, it was likely to be based on the continental model where fire and ambulance ser-

vices were already integrated. The chief fire officers proposal forms part of a report on the future development of fire and rescue services published yesterday. Its call for the integration of the emergency ambulance service was agree unanimously by chief fire offi cers attending a seminar on the report last month. Many ambulance staff, however, are likely to regard the proposal as an attempted take-over rather

than an amalgamation. The report supports the con-tinuation of the fire brigade as a local authority service, but questions whether the tradi-tional local government com-mittee structure is the best way of managing it. Although some local authority chief executives might disagree, says the report, the lead role in planning for major civil emer-gencies should be taken by the fire service or police. Support for the retention of

the fire brigades pay formula, which provides an automatic link between firefighters' pay and that of other occupation is given by the chief officers. But the report says this should a now be linked to a no-strike

The report expresses concern about Government proposals to stop directly funding the Fire Service College, and make this the responsibility of local authorities. Chief officers are concerned that this could undermine training standards.

ABB Kent set to | Councils seek form large part of new division

By Andrew Taylor, Construction Correspondent

ABB Kent, the British instruments group is to form a large part of a new division to be created by Asea Brown Bov-eri the Swiss-Swedish engineer-

ing group.

The new division will manufacture sophisticated control and measuring equipment for a wide range of process indus-

tries. Asea Brown Boveri in February bid 178p a share for the remaining 45.6 per cent of ABB Kent it did not own

The bid valued Kent, which is the world's second largest manufacturer of water meters at £135m.

Kent said yesterday that Asea Brown Boven had pur-chased more than 95 per cent of its shares and was in the process of buying out the remaining shareholders. The new division will be called ABB Kent Taylor and

will incorporate a large part of the Kent business supplying instrumentation equipment to process industries as well as the Taylor Instrument division of ABB Combustion Engineer ing in Rochester, New York.
The division will have some sales of more than

The division will exclude

joint poll-tax legal challenge By Paul Cutts

All 21 local authorities which All 21 local authorities which have been penalised by the Government for setting what it sees as an unacceptably high rate of the controversial new poll-tax yesterday agreed to support a legal challenge against the Government's action.

Leaders of the opposition Labour-controlled councils met in London. They agreed to back Hammersmith and Fulham council's legal challenge, which is seeking leave to appeal for a High Court judi-

cial review next Tuesday. The councils will share legal costs by bringing an "umbrella action." Until the case is settled, all 21 will collect the

poli-tax, or community charge, at the levels they set hefore being 'capped'.

A joint statement issued by the authorities revealed all the councils were considering their own legal positions "very carefully."

Margaret Hodge, Chair of the Association of London Authorities which represents nine of the 21 councils, told a press conference the selection of capped authorities had been "arbitrary and politically motivated." Roger Berry, leader of Avon County Council, said "The position of all of the authorities is that we do not accept the care."

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THE PROPERTY MARKET

Speculation pushes Japan's boom

By Stephen Fidler

he price of land in Japan's big cities makes property prices in central London look like a bargain. Proceeds from the sale of an area the size of the Imperial Palace grounds in central Tokyo would, it is said, buy all of Canada and the buildings on it.

A square metre in Tokyo's glitter-ing Ginza shopping district was sell-ing last year at \$245,000, according to the national land survey, which tends to underestimate actual purchase prices.

Residential land prices in the Chiyoda ward of Tokyo - the home of Mr Toshiki Kaifu, the Prime Minister, and the most expensive in Japan - were logged at \$80,000 a square metre. Land for housing in Tokyo is 150 times more expensive

than in New York City While Japanese land prices have long been relatively high, over the last five years they have been in a speculative spiral; a consequence of the international economic co-ordi-nation effort which kept Japanese interest rates low to prevent a col-

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lapse in the dollar. The initial impact was in Tokyo, where demand for land was influenced by the influx of foreign financial services into the City. The effect has since fanned out, leaving

few of the country's big cities unaf-fected. Last year residential land prices in Osaka rose by more than half — to more than 90 per cent of Tokyo's - while Kyoto, the ancient capital, experienced a 62 per cent rise. But as Japan's economic power has grown in the world, its high land prices have become more than a domestic concern.

By inflating the share prices of companies which own land, it is said that high property prices allow Japanese companies to raise the world's cheapest equity capital. According to Kenneth French and James Poterba of the Massachusetts

Institute of Technology, land prices make up more than half the tangi-ble assets of Japanese companies compared with about 12 per cent of their US counterparts. Lax money has helped the latest upward spiral

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in prices, but they were high in the

The reasons are structural. Some, indeed, make it advantageous to hold land over other assets, Some discourage the efficient use of land.

Work by Mr Yukio Noguchi, Pro-fessor of Economics at the Hitotsubashi University, shows that the huge disparity in property prices between Japan and other developed countries is not reflected in office rents. In 1987, office rentals in the Marunouchi district of Tokyo were only double those in the City of London or in Manhattan.

Encouraged by 40 successive years of land price rises - with the exception of 1975, after the first oil price shock - most buyers of land appear not to purchase with rental income in mind, but for capital gain. Many companies and individuals thus use land holdings as collateral against which they borrow to buy . . . more land.

The emphasis on land use seen in other countries is not so highly developed in Japan because it is less important than ownership. On top of this, the tax system and the building and leasing laws, which give unusually strong rights to ten-ants, work against efficient use of

Lease laws make it virtually impossible to oust a sitting tenant by legal means — a strong disincentive to letting residential buildings. A building with sitting tenants will invariably reduce the value of the land on which it sits. That partly explains why so many underused sites lie so close to the centre of

But anomalies in the tax system provide another reason why so many tiny fields are cultivated so close to the centre of cities in Japan. There are 200,000 hectares of farm land within 50kms of central Tokyo, 36,000 hectares in the Tokyo urban area alone.

One legacy of the economic priorities in post-war years is the protection granted to farmers. Farmland, even in urban areas, attracts hardly any property tax.

According to research from the Economic Research Institute of Japan's official Economic Planning Agency, tax on housing land is almost 400 times as heavy as on land used for farming. Under cer-tain assumptions, the institute calculates that equalising tax on farmland and housing land in urban areas would render farming uneconomic, increase the supply of hous-ing land and thereby reduce the price of land by up to 25 per cent over 10 years.

ping up land prices has been the way inheritance tax is assessed. Mr Noguchi estimates that for inheritance tax purposes land is val-ued at about half the market price. As a result, parents try to pass on land, rather than financial or other assets to their children. Not only that but if a parent borrows to buy land, the debt is tax deductible for

Another critical factor in prop-



Property price spiral: highrise office and retail buildings in central Tokyo

Efficient land use is further constrained by restrictive planning laws which limit the height of buildings to 10 metres in most areas. Now that construction technology seems to be able to cope with even severe earthquakes, such a restriction has less real value.

The state of the s

Confronted with these issues, many Japanese agree in theory with the need for reform. In practice, however, there has been almost a

conspiracy of inertia.

There is also strong and understandable support for the lease laws which are seen as playing an impor-tant social role. Still reform of these laws would free more land for hous-ing and the main beneficiaries

Sixty per cent of Japan's popula-tion owns a piece of land. In Tokyo and including those expecting to inherit, this figure reaches close to 80 per cent. Gaining consensus on reform is thus difficult, even though huge numbers of those who consider themselves winners from high land prices may really be losers; for example, those who face two-hour journeys to work because they cannot afford to live nearby.

Judging from the collapse in stock prices since the beginning of the year, the Bank of Japan's tighter money policy is beginning to have an effect on asset prices - as reflected in the fall of about 25 per

Its moves to raise interest rates seem to be taking some of the steam out of the country's inflated asset

Japan has promised the US that this year it will submit a bill to the Diet to review the tax charge on farm land in metropolitan areas and to implement tax reform starting in 1992. It will also review taxes on unused land with a view to giving owners an incentive to use it. But the worty for those seeking more fundamental reform is that it is sharply rising land prices which disturb the Japanese, not the fact that prices are too high. If the Bank of Japan policy succeeds, that unease may dissipate along with the political will for land reform.



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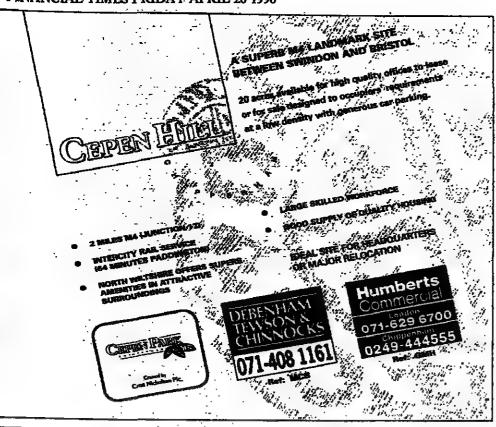
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the place: a lonely. heat-baked desert road in Arizona. Without warning, the sports car which is its driver's pride and joy

coughs, stutters, then glides to an halt at the roadside. In time-honoured manner the driver gets out, opens the bonnet and hopes to find something obviously wrong.
In the simple days of carbur-

ettors and contact-breakers, it might well have been easy. Now there are no clues; the engine is barely discernible beneath a festoon of systems wiring and inscrutable electronic black boxes.

But even as the first vulture is cheerfully applying its air brakes, the driver is punching at a bank of cockpit buttons. A continent away, at Hethel in Norfolk, a receiver begins to pick up the data being bounced back by satellite from the

stranded car in Arizona. A computer inside Group Lotus - Hethel is the home of General Motors' sports car and engineering subsidiary - com-pares the incoming data with the main database for the model and identifies the minor problem that has developed in electronic engine manage-

Within seconds encoded instructions are being sent via

John Griffiths on Lotus's progress into electronic vehicle innovation

Designs for easy riders

'Relentless pursuit of perfection'

Stefan Wagstyl examines quality control on Toyota's luxury model

the satellite into the car's receiver, reprogramming cirelectronic fault diagnosis and problem. A dashboard message signifies that the car is operative again. The driver fires up and heads off into the sunset. leaving only the sound of

gnashing beaks.

Michael Kimberley, chief executive of Group Lotus, has been steering the company's activities since well before its consultancy engineering activi-ties began a decade ago. In describing the above scenario, he and his senior electronics and engineering colleagues at Group Lotus are trying to establish a belief that the concepts contained in it are likely to become a reality for an increasing number of the developed world's motorists.
For commercial reasons.

such as getting component costs down to reasonable levels, such a situation might not be feasible by the late 1990s, they acknowledge. But the sys-tem is already technically achievable and, says Lotus,

correction should not become an accepted part of motoring early in the 21st century.

The concept of a remote vice centre is just one aspect of electronic vehicle innovation on which Lotus has been working for some time. However says Kimberley, this is being facilitated at an unexpectedly rapid rate as a result of the company's emphasis on data aconisition and analysis.

He uses Team Lotus's racing activities as an illustration of how unexpectedly informative, and important, sophisticated data collection has proved in developing systems such as electronically-controlled "active" suspension and steering, on which Lotus is working for various motor

Described in simple terms, active suspension is a system in which sensors monitor all the forces acting on a car, including surface unevenness, and convey their information instantaneously to a computer. The computer commands two-way hydrautic rams, capa-ble of working in hundredths of a second, to counter any unwanted changes in the car's attitude underbraking, corner-

ing, or over rough roads.

But it embodies potential hazards, too, as was shown up in the data stored from one grand prix where a prototype active suspension car was used. The car crashed with a sudden puncture, or so it seemed until the data which on-board sensors had been transmitting into the car's "black box" were analysed.
By reading the force mea-

surements, Lotus technicians learned that the puncture had begun to develop a full two laps earlier. The driver had been unaware of it until the last moment because, so effec-tive was the active suspension that it had successfully com-pensated for the deflation right up to the point that the tyre

With active suspension touted to become a standard. feature of most cars by early next century, eliminating such potential hazards assumes profound importance. Electronic tyre pressure monitoring is one solution - but, as Lotus's engineers point out, so radical are the advantages offered by active suspension that even a fundamental redesign of the meumatic tyre since it was invented cannot be ruled out. You can even ask yourself, given the way in which an active suspension will pick

you even need air in the tyres at all," observes Kimberley. Meanwhile, Lotus has given its first detailed indications of how it is tackling "active" steering. Lotus intends the active part of the steering to be carried out by the rear wheels — the electronic system turning the rear wheels either in parallel with or in the composite parallel with, or in the opposite direction to, the driver-steered front wheels, depending on the nature of the forces at play.

itself up over a bump, whether



Michael Kimberley of Lobs

One example of how it will work, says Kimberley, is provided by a car so equipped passing a truck at high speed on a motorway. Instead of having to prepare the driver to counter a sudden sideways gust, the active steering will sense the sudden sideforce and instantly balance the car against it. "The driver shouldn't even be aware that anything's happened", says

melting together two or more

pieces of metal.

Toyota, using its own in-house machine tool workshops, has built a laser-welding machine able to weld steel of different thicknesses. It produces a side panel in one operation — welding together a thick piece of steel at the bottom, galvanised for protection parameter rust, thinner micros in against rust, thinner pieces in the middle, and a thicker piece at the top for reinforcing the body in case of accidents.

One of the most difficult operations is fitting doors. It used to be done by hand, now a robot aligned by means of lasers fits doors to within I

Supra models, each car is tagged with an electronic card hung on the chassis. This alerts robots to its individual specifications so they can, for example, select and install seats of the right shape and colour. At one point on the assembly line the Lexus/Celsior bodies are automatically routed on to a separate line, where front grille parts, more

Chip industry calls for new trade rules

By Louise Kehoe and Michael Skapinker

emiconductor manufac-Sturers from the US and Europe are calling for radical changes to anti-dumping laws to prevent any recur-rence of their trade battle with Japan over memory chips, which began in the early 1980s.

Two trade groups, the US-based Semiconductor Industry Association (SIA) and the Association (SIA) and the European Electronic Compo-nent Manufacturers Associa-tion (EECA), have called for modification to the anti-dumping code during the current

round of Gatt negotiations. Existing trade rules are inadequate, the industry groups claim, because they punish dumping only after a domestic industry has suffered serious, sometimes irreparable damage. sometimes irreparable damage.
"Dumping companies can
achieve long-term market
advantages, elbow out their
competition — sometimes permanently — while government
action is too lenient to deter
repeating the unfair practices,"
the industry groups charge.
The problem is particularly
acute in the semiconductor
industry By the time burgan-

industry. By the time bureau-cratic wheels have turned and a dumping case is completed, the products in question may already be obsolete. "Our experience and the experience of other high-technology indus-tries show that anti-dumping laws were devised to deal with products with far longer life cycles," says Eckhard Runge, EECA's secretary general.

Wilfred Corrigan, chairman of the SIA, adds that "during the last round of D-Ram dumping, remedies came too late to save American firms which were driven from this market." All but two US D-Ram manufacturers withdrew from the

market in the mid-1980s. Similarly, the European Commission reached an antidumping agreement with 11 Japanese manufacturers last January, two and a half years after it tirst leunched its inves-tigation and at least four years

after the dumping began.
Fears that dumping may recur make it difficult for semiconductor manufacturers to commit themselves to long-term, costly investments in research and development as well as in new plants, the

industry groups say.

The US has a five-year semiconductor trade agreement

with Japan which is due to expire in September 1991. The EC-Japan accord will be reviewed in the same month. Chip makers are anxious to have new dumping laws in place before these agreements end. "We are holding on to a safety rope," says Warren Davis, SIA vice president. "We cannot afford to let go unless something else is in place."

The perceived threat of dumping comes not only from Japan. A focus of the semiconductor industry groups' attention is Korea which has greatly expanded its exports of chips over the past five years. The US and EC semiconduc-

tor groups have agreed on three basic principles and sup-porting provisions aimed at improving the effectiveness of international anti-dumping

 Deter injurious dumping • Prevent evasion through third market sales. • Include all costs in fair

value calculations. The groups have, for example, agreed upon a common definition of what constitutes a "fair price" for a semiconductor chip. This has involved assessing how various costs should be assigned and agreeing upon what a fair profit

margin should be. EECA's Runge says that western semiconductor companies' own dumping investiga-tions could enable the authorities to act much more quickly. "If at the stage of preliminary investigations, it's clear that dumping has occured, then action should take place immediately. It should not take SIA and EECA, which have been meeting for over a year to discuss the dumping issue, have yet to address what may be the most controversial and problematical aspect of their

tion of dumping and swift response possible, some form of price monitoring system needs to be established. In the case of D-Rams, Japanese export price data is being collected under the terms of the US-Japan semiconductor agreement. That mechanism, or a similar one, would have to be expended and made permanent in order to implement the proposed changes in anti-

dumping laws.

proposals. To make early detec-

fit any wrong parts." To Toyota's embarrassment, two small faults last year escaped detection - cars in the US had to be recalled after

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dealers reported problems with a brake light and with

the Lexus/Celsior has reached

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coming off Toyota's luxury model assembly line at Tahara, in central Japan, where the company produces its first luxury model — launched last year in the US as

new heights of quality control for Toyota Motor. A team of quality control experts examines every car Signs comparing the Lexus/ Celsior with the latest BMW and Mercedes-Benz models hang above the inspection lines to inspire workers and impress visitors. The Lexus/Celsior costs some 50 per cent more to produce than the Lexus LS400 and as the Celsior in Japan. Working under bright lights like surgeons, they listen for Toyota's previous top-of-therange car, the Crown, accord-

the alightest unexpected sound from the V8 engine and look for the smallest scratch on the ing to company estimates. Setsuro Sekiya, the plant manager at Tahara, says the bulk of this is absorbed in paintwork. They use computers to check the alignment of the wheels and the accuracy of many unseen improvements spread across the whole facthe steering. At the end of the line is a large board where workers have written slogans tory. The meticulous final inspection – which takes four times longer for a Lexus/Cellike: "I am determined not to slor than for a Crown - is

only the most visible change. The others are dotted about the manufacturing process. Unlike Toyota's other plants, where the main aim of production improvements is to cut costs, the goal at Tahara has been to raise quality - trying to make the car safer, sleeker

850 square meters.

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As a result Tahara is by no means the most highly auto-mated of Toyota's plants. Instead, its outstanding fea-ture is the selective use of new methods and technologies. In the engine plant, the chal-lenge was to produce a V8 engine superior to the V6, installed in other top-line mod-

into production in 1987. Engineers found they could ost output simply by making the engine components more accurately, cutting the the maximum variation in the size of the engine chamber from 0.8 cubic centimetres to 0.6 cubic centimetres, for

els, which had itself only gone

Engine blocks are made on an automated line, with the aluminium casting moving from one robot to another for tooling. In the past, inspectors took one block off the line per shift to check that the robots

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checks one block in 30, giving an instant read-out of the dimensions in the form of a chart for ease of inspection.

By improving the finish on polished engine parts, engi-neers can reduce friction and thereby improve efficiency. Toyota developed a special cork-like substance to give components a final rub after they have been smoothed by conventional polishing materi-

The inspection of engines has been improved by building a sound-proof testing room where engines can be run at full throttle without the noise disturbing nearby workers.

Over the gates of the body shop hangs a banner saying:
"The relentless pursuit of perfection." The bodyshop is the most highly automated part of the Lexus/Celsior production process with 94 robots, 74 of them welding. The newest

them welding. The newest

innovation is a laser welding

machine which seals joints by

millimetre in accuracy.
On the assembly line, where
the Lexus/Celsior is assembled together with the Soarer and

complex than for the Supra and Source, can be installed.

FT LAW REPORTS

Digest of Hilary Term cases

FROM JANUARY 31 TO FEBRUARY 16

The taxpayer agreed to work as an executive director for a company in Hong Kong on terms that the company would pay his children's education costs. It was held that the fees constituted income from his employment assessable to Hong Kong salaries tax. Upholding that decision, the Privy Council stated that it sufficed to say that an identifiable sum of money required to be expended by an employer, pursuant to a contract of ser-vice for the benefit of its employee, was money paid at the request of the employee and was either part of his salary or was a monetary perquisite taxable as such according to UK law and authorities. It was money paid at the employee's request, and sala-ries and perquisites must be taken to have the same meaning in Hong Kong tax law, which was based on UK law.

RE ORGANON LABORATORIES LTD (FT, February 2)

The licensing authority appealed against a Divisional Court judgment, quashing its decision to vary the licences. on the ground that evidence on the ground that evidence regarding an anti-depressant drug was admissible to show that the drug had low toxicity when taken in excessive quantities. The licensing authority's decision to exclude had been based on EC Directive 65/68 that safety in overdose was not that safety in overdose was not a relevant factor in assessing the safety or harmfulness of a drug. The Court of Appeal, upholding the Divisional Court's judgment, stated that although the UK was in breach of its treaty obligation to har-monise the law on medicinal product licences on the lines of the Directive, section 28 of the Medicines Act 1968 was the applicable test of "safety" in administration of the drug and safety did not involve an immutable standard. Very few drugs were entirely free from risk of side effects in some patients. The question must always be whether the degree of risk was sufficiently low to be acceptable, and that could not be addressed without an appreciation of the benefits to be gained from taking a risk of

GLYNN V INLAND REVENUE
COMMISSIONER
(FT, January 31)

The taxpayer agreed to work

(FT, February 6)

SOCIEDADE NACIONAL DE ing in the one to amul the GUINNESS FLC V SAUNDERS

COMBUSTIVEIS DE ANGOLA

DE ing in the one to amul the GUINNESS FLC V SAUNDERS

AND ANOTHER

(FT, February 14)

Mr Ward admitted receiving 25.2m of Guinness money when

Under a Mareva injunction, the defendants, Mr Lundqvist and SLOES, were required to give details of the "value and whereabouts" of "his" assets wherever situated. Section 14(1) of the Civil Evidence Act 14(1) of the Civil Evidence Act 1968 provided that a person's right in non-criminal proceed-ings to refuse to answer any question or produce any docu-ment if to do so would tend to expose him to proceedings for an offence: "(a) shall apply only as regards criminal offences under the law of any part of the UK..." It was plain that the fact of the witness being in danger had been established in Mr Lundqvist's case. The question was whether the value and whereabouts of his overseas assets would form a link in the chain of proof against him on a criminal charge. He was to be allowed great latitude in judg-ing that for himself. And it appeared distinctly probable that the value of his assets might be such a link — not that it would be. The claim for privilege was upheld insofar as Mr Lundqvist and SLOES were required to state the value of his assets oversees. The same reasoning did not apply to the nature or situation of those

THE MEXICO 1 (FT, February 7) Under a charterparty com-mencement of laytime was expressly related to notice of readiness. However when the master gave notice that the vessel was ready to commence discharging, the cargo was partly overstowed with another cargo and it only became accessible after three weeks. Allowing an appeal by the charterers, the Court of Appeal held that there was no basis for finding that laytime began before the operation of discharge began. The second question was whether it was permissible to regard two-part cargoes carried on the same vessel to the same port for the same charterers, as constitut-ing a single cargo, so that notice of readiness could properly be given as soon as the whole of one part was available. They were two different contracts and there was noth- duty.

METTOY PENSION TRUSTEES LITO Y EVANS AND OTHERS

(FT, February 9) Under Mettoy's pension scheme, the trustees held the pension fund on irrevocable trusts to pay pensions and other benefits in accordance with terms of the fund. On winding up 2,500 were entitled to benefit. Surplus over manda-tory benefits was estimated at about 29m. Mettoy submitted that, under the deed, members' rights were satisfied when they had received their mandatory benefits. Whether they received more lay in the bounty of the employer. That was not correct, Mr Justice Warner stated and the beneficiaries had a right to be considered for discretionary benefits.

The discretion conferred on the employer by rule 13(5) was a fiduciary power in the full

CAPARO INDUSTRIES FLC v DICRMAN AND OTHERS (FT, February 13)

in the present action Caparo alleged that a takeover bid was made in reliance on inaccurate or misleading accounts by which an apparent pre-tax profit of £1.3m should have been shown as a loss of over £400,000. It said had the true facts been known it would not have bld and it alleged fraud and negligence against the accountants. On a trial as a preliminary issue, it was held that the auditors owed no common law duty of care to the shareholders or to the inves-tors. In the Court of Appeal, it was held that while there was no sufficiently proximate relationship between an auditor and a potential investor to give rise to a duty of care, there was such a relationship with individual shareholders. The accountants cross-appealed to the House of Lords which held that it was difficult to visualise a situation in which individual shareholders could claim to have sustained a loss in respect of existing shareholdings referable to auditors' neg-ligence. A purchaser of addi-tional shares stood in the same position as other investing members of the public to whom the auditors owed no

he was a director of Guinness. Payment was, said Mr Ward, remuneration authorised by Mr Ernest Saunders, Mr Olivier Roux and himself, who formed a committee of the Guinness board. In the present proceedings Guinness sought an order for immediate repay-ment on the ground that the payment was unauthorised under its articles of association. The Vice Chancellor made tion. The vice-chancellor made the order sought by Guinness and his decision was affirmed by the Court of Appeal. Mr Ward now appealed. Dismiss-ing the appeal, the House of Lords stated that article 91 drew a contrast between the board and a committee of the board. The board was expressly authorised to grant special remuneration to "any" director who served on "any" commit-tee. It could not have been in tended that any committee should be able to grant special remuneration to any director, whether a member of the committee or not.

OFT, February 16)
Article 1(1) of the Collision
Convention provided that a
collision action could only be
introduced before the court of:
(a) the place of the defendant's residence or place of business; (b) the place of arrest of the defendant ship or of "any other ship belonging to the defendant ... or where arrest could have been effected and ball or other security has been furnished;" or (c) the place of collision, when it occurred within port limits or inland waters. Article 1(2) provided that it should be for the plaintiff to decide in which of those courts the action should be instituted. The plaintiffs relied on article 1(1)(b), in an action arising out of a collision of a US merchant ship and the defendant Italian ship, the Po. Refusing the application by the defendant owners that the action be stayed. Sheen J stated that in the present case the owners undertook by letters of guarantee from the P&I Club to pay any sums due to the plaintiffs so that the crucial words of article 1(1)(b) applied, namely that "hall or security" had by that security" had been furnished. Aviva Golden

cases



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Overseas listings

Mining a wider seam of shareholder loyalty and enhancing financial clout

Simon Holberton examines the motives of companies seeking quotations on a number of stock exchanges

f all the necessary documentation can be completed by the end of this month, RTZ Corporation will make its debut on the New York Stock Exchange in June. It is already listed in London and on seven other European stock exchanges.

The documentation is a US Securities and Exchange Commission requirement to ensure that RTZ's financial reports conform to US generally accepted accounting principles (GAAP). It is now

George Naylor, head of investor and public relations, opens a huge file and on top sits RTZ's draft Form 20-F, the on top sits k12's draft form 20-F, the SEC document in question. RTZ has up to six months after it last reported to get a listing on NYSE and it last reported for the year ending December 31 1989. The SEC can take up to eight weeks to process a Form 20-F application, hence the need to get it to the SEC by the end of April

by the end of April.

Ian Strachan, RTZ's finance director. says the document is just like an annual report and adds: "The regulatory problems [associated with a US listing] are much less onerous than we first thought." The main adjustment RTZ has to make to its UK accounts to bring them in line with US GAAP requirements concerns goodwill and the way it accounts for its mineral reserves.

More and more British companies are looking to list themselves on foreign stock markets, especially in New York. So far, 50 British companies have sought a listing on one of New York's three stock exchanges, accounting for nearly half of the 102 UK-based companies which have listed on foreign exchanges. The reasons for a foreign listing are three-fold:

of it, as many companies and RTZ in particular believe, there is unfulfilled demand for their shares, then making it easier for a wider investor population to buy their stock should produce a higher share price then otherwise would be the share price than otherwise would be the

 A foreign listing, particularly in the US, gives the company access to a much larger potential pool of capital than it currently enjoys. As a complement to its decision to list on the NYSE, RTZ is also seeking a rating from Moodys Investor Services and Standard and Poors for its short and long term corporate debt. This will allow it to seek access to the US commercial paper market, the largest market of its type in

 A broad geographical spread of share ownership and a higher than otherwise share price might make it more

Strachan says this consideration was "neutral" in his and RTZ's thinking about listing on the NYSE. A company's size, he says, is no longer a guarantee of protection against a predator.

• A related issue is the loyalty of foreign shareholders. Before the October 1987 stock market crash, US investors

owned 7 per cent of RTZ. Virtually overnight that holding fell to 3 per cent where it has remained since; the stock was dumped in London, where much of it was held by US funds, and RTZ's share price, along with all others, fell sharply

There is no way of knowing, or proving, that US investors would have held RTZ shares during those dramatic days but the experience of other companies, such as Imperial Chemical Industries which took a full listing on the NYSE in

1983, is illuminating.

Alan Clements, the finance director, notes that before the October crash, US investors held about 16 per cent of ICI's equity through American Depository Receipts. Today US investors hold 11 per cent of ICI's equity in the form of ADRs. Prima facie, it would appear that the greater the market's familiarity approach to the US market, both investor and analyst alike, has all the hallmarks of a professionally mounted and executed plan. "Consistent" is a word Strachan likes to use when describing what is required in the US and consistency is a virtue many considering list-ing in New York would do well to imi-

During 1987, Strachan lobbled his fellow directors in support of a US listing. Finally, in early 1988 he won approval to investigate it further. He went to New York to meet the top half dozen "sell analysts" - the analysts on whose advice the investment community leans advice the investment community leans

at brokerage houses and investment
banks. The message he received from
them was that US investors would be
interested in RTZ, but it needed to be
listed on a US exchange.

He then set out to discover the potential market for RTZ stock among the US
investment institutions. He hired a consultancy. Gavyn Anderson & Company

sultancy, Gavyn Anderson & Company which, by the summer of 1968 had pre-pared a detailed report on the major US institutions: their size, their attitude toward investment and the person concerned with natural resources and min-

"Consistent" is a word Strachan likes to use when describing what is required in the US and consistency is a virtue many considering listing in New York would do well to imitate.

with a company - and a US listing does breed familiarity - the greater the willingness of investors to ride out the bad in anticipation of the good.

The listing of RTZ's American Depository Receipts (ADRs) - one ADR will be backed by four RTZ ordinary shares will bring to an end a process which has occupied Strachan since the beginning of 1988 (and Naylor for the past year) when he was given a provisional go-shead by a reluctant RTZ board to explore the possibility of a quotation on

But it will not stop there. It will entrench an attitude of greater openness which the senior management of RTZ have had to learn over the past two years. This has been in direct response to the demands for information by investors and stock analysts in America. In a sense, the public face of RTZ today has been irrevocably changed by its decision to have its shares quoted in New York.

In its pursuit of a New York listing, RTZ has had to learn the lessons of many which have gone before. But its

ing stocks.

RTZ's finance director then turned salesman. In more than 100 meetings with institutional investors, some more than once, he attempted to sell them the idea of globalisation. He winces at the use of the term but says: "I believe that global stocks are the 'wave of the future.' Investors will not only want stocks rooted in a domestic market but ones with an international spread of husinesses like RTZ."

Unlike the mining stocks with which US investors and analysts had been familiar, RTZ was not a single commodity stock: it has a broad range of mining assets located throughout the world the income from which is denominated primarily in dollars and other major

"Single play stocks" as he calls the other US mining companies are vulner-able to the vagaries of the economic

RTZ is more complex than that, with mining assets that include copper, gold, iron ore, coal, titanium, aluminium and borax, to name but a few. The latter

came into the RTZ portfolio through its purchase of BP Minerals last year and Strachan uses that acquisition to under-line the fact that RTZ is also a significant US company, a third of its operat-ing assets are now located in, and half its attributable profits now derive from,

mining activity in the US.

"The first year was quite uncomfortable; no one knew us," Strachan says.
"Analysts wanted to go into great detail about our copper and aluminium operations. The questioning was aggressive. They wanted to know what our earnings would be. ,tomorrow. We don't give earnings forecasts and we don't normally discuss our business in such detail. A lot told us 'if you don't tell us more than you are prepared to then we're not buying you'."

Generating analyst interest is one of the crucial paths to success in New York. As Strachan says, a company has to be followed by a group of sell analysts. Analysts themselves are market driven and their market is the US investment institutions which buy stocks through a US stock exchange As Strachan, and others, note, the US analysts are a breed apart. They have a consuming desire for detail, are experienced and curious researchers, and are

ing angle.
As ICI's Clements notes: "You have got to be prepared to make the effort and go over there even when times are bad. They give you more marks for telling them about your problems and how you are dealing with them than for acheving unexpectedly high earnings.

always on the look out for the interest-

Despite the bruises of the first year Strachan repeated the exercise last year when the 1988 final results came out in the spring and the interim results in October. Derek Birkin, RTZ's chief executive, participated in the latter meetings with investors and analysts. He discussed not only the results but the rationale behind the BP Minerals acqui-

The involvement of not only Strachan but now Birkin in regular visits to the US to meet investors and analysts was one of the main issues which exercised the collective mind of the RTZ board. "The board didn't want Strachan, Bir-kin and Naylor in the US flogging RTZ with no return to us," says Strachan. But, he says, the company's objec-

tives are clear and limited. Over the medium-term (five years), RTZ wants to build up its US shareholding to about 10 per cent of its market capitalisation.
"The shareholder register will not change overnight; it is a long-term exer-

Austria III France Hong Kong Japan Luxembourg Malaysia Netherlands New Zealand **UK** companies listed on overseas Norway stock exchanges Singapore 22 Several companies are listed on more than one overseas exchange South Africa CALES AND STREET, STRE Geneva 11 Switzerland Zurich 11 Philadelphia 1 American 2 New York 17 Berlin 3 · W.Germany

IN THE long run it will be the right thing to have done, but this long run will be quite long." So says Alan Clements. finance director of ICI, about the company's listing on the Tokyo Stock Exchange.

Japanese investors are among some of the most parochial in the world. A company's sponsoring broker in Tokyo – usually one of the big four, Nomura. Daiwa, Yamaichi or Nikko – will organise a positive response to listing on the first day. The share price will rise and trading will be quite active, but after that most UK companies have found the stock issued flows back to Lon-

When ICI listed in Tokyo in December 1988, Japanese investors owned 1.25m ICI shares. Today they own about 100,000 shares

This stands in marked contrast to the behaviour of US investors who have been willing and interested holders of ICI's shares since it regularised its status in New York in

1983. (ICI's shares had been

traded by a small bunch of devotees in New York since

the early 1930s.) ICI's Japanese experience -known as 'flow-back' - is depressingly similar to the 18 other UK companies which have listed on the TSE since 1986 and many of the 100 other foreign companies which have their shares traded in

Flow-back defeats one of the main purposes for listing on foreign exchanges: the desire for a wider geographical spread of share ownership. It also has undestrable effects on a company's share price when the shares issued for Japanese investors get sold back to Lon-

Although Ian Strachan, RTZ's finance director, is acutely aware of these problems, he says RTZ still wants to establish Japanese investor interest in its stock. A listing is not being actively considered and thought is being given to other possible ways of achieving the company's aim.

Management abstracts

Employee surveys - filling the gap in management infor-mation systems. P Saul in Asia Pacific HRM (Australia). Nov 89 (13 pages)

Lists the reasons for undertaking an employee survey, eg to provide information on how employees are likely to react to a planned organisational change; identifies the problems associated with surveys, inter alia, employee suspicion about their 'real' purpose; considers trends influencing the use of surveys, such as a growing belief that people are a company's greatest asset. Presents guidelines for conducting a survey, warning that it must be part of the management information and control system and not a one-off exercise. The moral muteness of managers. F B Bird + J A Waters in California Management Review (US), Autumn 89 (16 pages) Highlights the reluctance of

many managers to admit that they are acting morally, even when they are are; instead they talk as if their actions are guided exclusively by business interests. Examines reasons why this should be - citing the threat to organisational harmony and efficiency and to images of power and macho management - and looks at the consequences. Discusses ways in which change inter-ventions leading to greater openness in discussing moral issues, can be encouraged Putting customers first. K Bertrand + R Kearns in Business Marketing (US), Dec 89 (5

Presents two examples of companies committed to measuring and improving customer service/satisfaction. GTE Telephone Operations conducts customer surveys to monitor perceptions of various service attributes. GTE found that high-quality service can be traded off through higher prices; it uses customer satisfaction measures for assessing managerial compensation (up to 35 per cent). The second case, Sonoco, a packaging sup-plier, has developed a 'relative perceived quality survey, essentially a monitoring sys-tem by which customers describe their ideal supplier and then rank attributes as to how they expect suppliers to

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COMPANY NOTICES



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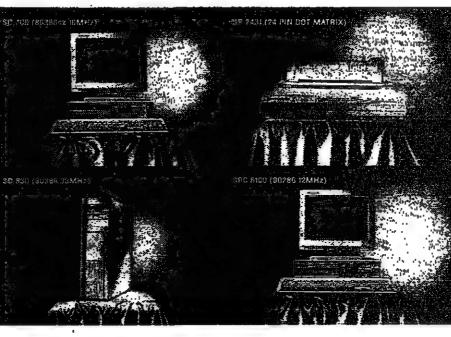
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ARTS



EXHIBITIONS

London

The Tate Gallery. The entire permanent collection has been rehung so that the visitor may now take a natural circult through the newly restored gain painting through to the the most recent of modern international

Grand Palais. Soliman Le Magni-fique. A treasure trove of goldsmiths' work, miniatures, ceram-ics and textiles recalls the splendour of the reign of Soliman the shadow of god on earth". in the 16th century from the Caucasus to the gates of Vienna and from Algeria to the Persian Gulf. Closed Tue, Wed late closing. ends May 14 (42895410). Musee d'Orsay. The Fragmented Body. Parts of the human body, or the incomplete body form the leading strand of an exhibition-beginning with ex-votos and reliquaries and culminating inn celewith his masterly transition from realistic to abstract sculpture. Ends June 3, closed Mon. entrance Qual Anatole France

OPERA AND BALLET

Parie

Paris Opera. Swan Lake in Nureyev's choreography after Petipa and Ivanov with the Paris Opera Orchestra conducted by Queval (47425371). Théatre de la Ville. Carolyn Carl-son dances in *Light* performed for the first time, where she uses mythology to describe her quest for spiritual serenity (42742277).

MI III TONING

Teatro alla Scala, Liliana Cavanl's production of La Traviata opens this week, with Tizians erto Alagna as Alfredo, conducted by Riccardo Muti.

Testro Nuovo, Luciana Savigpany dancing Robert North's La Jeune Fille e la Mort, Ben Stevenson's Three Preludes and Fokine's original version of Les Sylphides, adapted by Lynn Walls (78.12.19).

Centre Georges Pompidou. Pavel Nikolaievitch Flionov, A solitary-figure of the Russlan vant-gardo, he refutes cubism and futurism as contrary to nature's - and art's - organic development. "Every atom" of the surface of the 50 paintings and 150 drawings is given intense attention and basks in the light of idyllic harmony in cruel con-trast to his own destiny. Closed Tue, ends April 30 (42771233). Musée Carnavalet. Antique bronzes. Some 400 statuettes bring to life the Gallo-Roman world up to the 5th century. They are grouped in glass-cases around a divinity surrounded by objects of the appropriate cult. Closed Mon, ends July 1

(42722113). Musée d'art Moderne de la Villo de Paris. Kees Van Dongen. 132 works retrace the career of the painter who, as one of the Fauves enjoys provoking the public with daring juxtapositions of violent colours, charcoal contours and green shadows. The Dutch-born artist goes further and shocks with erotic subjects and poses only to subside later into portrai-ture of the elegant and famous. 11. Ave President Wilson, Closed Mon, late closing Wed. Ends June 17 (47236127) . Grand Palais. Pre-Columbian art in Mexico (1500bc - 1521ad). Some 130 exhibits from Mexico's archeological museums bear wit-ness to the high degree of artistic development of the ancient civil-isations of the Mayas and Aztecs.

30 (42895410).

Musées Royaux D'Art et D'Histoire. The Enigma of the Easter Islands is partially deciphered in this exhibition of photographs and artifacts. Closed Monday,

Teatro dell'Opera, Franz Lehar's

Merry Widow in a new and lav-ish production by Mauro Bolog-

nini conducted by Daniel Oren. Raina Kabaiyanska and Daniels

Gran Teatre del Liceu. Friedrich

Mechthild Gessendorf and Edita

Mazzucato lead the cast.

Haider conducts Richard Strauss's Ariadne out Naxos in

Gruberova. (318 92 77).

a production by the Oper der Stadt Koln. Cast includes

Theatre Royal de la Monnaie. The Monnais Opera in a new production of Wagner's Lohen

Opera, Katia Kabanowa is con-

ducted by Jiri Kout with Karan Armstrong, Ruthild Engert.

A deep religious sense inbues their imaginary world peopled with divinities often representer as laguars and serpents. Closed

Tue, late closing Wed. Ends July

ends April 29. e d'Art Moderne. Retrospective of the Belgian abstract/exsionist artist Englebert Van Anderlecht (1918-1961). Closed Monday, ends May 13.

Museum voor Schone Kunsten. Flemish Expressionism in a European Context (1900-1930) with works by De Smet, Ernst, Per meke, Van den Berghe and Zud-kine. Closed Monday, ends

Antwerp

Museum van Hedendaagse Kunst. Beeldenstorm...Anno 1990 - Contemporary Dutch Artists. Closed Monday ends April 29.

Palazzo Grassi. Andy Warhol Retrospective. 250 works from the major exhibition organise by Kynaston McShine for the Moma in New York last Moma in New York last spring, to which have been added about a dozen from private Italian collections. The show has since toured Chicago, London and Cologne, to end its tour at the Beaubourg in Paris this summer. Opening with Dick Tracy (1960) and closing with Warhol's version of Leonardo's Last Supper, done shortly before his death in 1987, the exhibition concentrates on the early works. 1960-1967, and the famous Marilyn, Liz and Coca-Cola series are shown to excellent effect in a particularly skilful layout by Gae Aulenti, in collaboration with Pontus Hulten, Until

May 27. Museo Correr. Jacopo Palma il Giovane (1548-1628). On show for the first time is one of the two albums of Palma drawings owned by the 18th century collector Anton Maria Zanetti (the other is in the British Museum) recently acquired by the

Patricia Johnson, Warren Ell-sworth and David Griffith. *Hoff-*manns Erzählungen in Gian

Carlo del Monaco's production has fine interpretations by Faye Robinson, Neil Shicoff and Mich-nel Burt. *Fidello* stars Gwyneth

Opera. Romeo et Juliet has John

Neumeter choreography. Ara-bella, expertly conducted by Heinrich Hollreiser, has a strong cast led by Lucia Popp. Olive Fredricks, Hellen Kwon, Dieter

Veller and Knut Skram. Harry

Kupfer's controversial new Tann-

häuser production is well sung by Guenter Neumann in the title

Meier and Andreas Schmidt. Fur-

Variantmis, sung in Franch with Delores Zeigler, Keith Lewis, Jean-Philippe Lafont and Harald Stamm. Fidelio is con-ducted by Nikolaus Harnoncourt

with a cast including Ana Pusar, Josef Protschka, Kurt Moll and

role, Linda Plesch, Waitraud

ther performances of Faust's

Hamburg

museum, together with a selec-tion of paintings, mainly of bibli-cal and mythological subjects. Puda Appil 90 Ends April 29.

Braccio di Carlo Magno in Piazza San Pietro: Michelangelo and the Sistine Chapel. This exhibition marks the end of a 10-year stint by Vatican restorers on the ceiling of the Sistine Chapel and the beginning of an esti-mated further four years' work on The Last Judgment. Remarkable for the exceptionally generous opening hours (open every day except Wed and on Sat from 9.30am to 11.00pm) and handsome catalogue as well as a rich collection of drawings by Raphael, Rubens, Annibale Carracci, showing clearly Michelanracci, showing clearly stichesan gelo's powerful influence, the exhibition also carefully docu-ments the techniques used and the difficulties encountered by the restorer. Particularly interesting is the 1541 copy of The csung is the 1941 copy of The Last Judgment, by Marcello Ven-usti, lent by the Capodimonte Museum in Naples, showing the brilliance of the original colours and the figures in their pre-draped glory. Ends July 10,

Madrid

Cologne

Frankfurt

in the title role.

Stuttgart

Museo Arqueologico Nacional.
Art in the court of Naples in the 18th century. Different examples of art including paintings, sculputure, furniture, porcelain and tapestries produced during the reigns of two bourbon kings: Charles III and his son Ferdinand IV. Ends May 6.
Fundacion Caja de Pensiones.
Conceptual art: a perspective.
Overall view of this relatively
unknown movement which is
nevertheless continually nourishing contemporary art production. Works range from mid-60s to early 70s. Ends April 29.

Opera. Manon Lescout has Lju-bov Kazarnoskaya in the title role. The Deutsche Oper am Rhein ballet dances Gisella.

Opera: William Forsythe's successful ballet *Limb's Theorem* is again offered this week.

is again outered this week.
Schoenberg's Moses and Aron,
produced by Herbert Wernicke,
conducted by Frankfurt's musical director Gary Bertini, will
have its premiere this week, with
Gerhard Faulstich as Moses and
William Coultman as Moses and

thanks to Helena Doese, brilliant

Opera. Philip Glass's opera Achn-

aion, composed for the Stuttgart Opera, is a deliberate break from

the American tradition, not only

in its choice of the young Egyp-tian pharaoh as main figure but

also in the corresponding use of African and Asian musical

William Cochran as Aron.

Ariadne auf Nazos convinces

Museo Picasso. Cubist works belonging to the National Gallery of Prague – Kramar Collection. The show includes 17 paintings by Pleasso together with an important selection of works by Czech and French artists. Ends April 29.

Washington

Chicago

Takyo

Tokyo National Museum. National Treasures of Japan.

Painting, scolpture, calligraphy craftwork, archaeological arte-facts, from prahistoric times to the Edo Pariod.

National Museum of Western

National museum of western Art. Bruegel and Dutch Land-scape. 58 paintings on loan from the National Gallery in Prague. The centrepiece is Pieter Bruegel

the Eldar's magnificent Haymak-ing, with its wealth of circum-stantial detail, and the focus is

on the development of landscape painting as a genre from its beginnings in about 1500 to the

mid 17th century. Closed Mon-

Zeffirelli's new production of Don Giovanni with Carol Vane

Don Giovanni with Carol Vaness and Samuel Ramey, Karita Mattila and Jerry Hadley. Julius Rudel conducts John Cox's production of Il Barbiere di Singlia with Kathleen Battle and JonHenrik Rootering. Opera House at Lincoln Center (362 6000). New York City Ballet. With a repertory still heavily steeped in Balanchine, the company funtures a festival of Jerome Robbins's ballets in the middle of the season, which lasts till July

the season, which lasts till July 1. New York State Opera House, Lincoln Center (870 5570).

National Gallery. A joint Soviet-

American collaboration brings together Matisse's fruitful and

1912-13 including 23 paintings and 45 drawings, among them the famous Moroccan Triptych

National Museum of Women

from the Pushkin Museum, never before exhibited in America.

arguably pivotal work in Morocco during his visit in

Saarbrücken

Moderne Galerie. Growing on the Move. Retrospective of Paul Klee (1879-1940) in honour of the 50th anniversary of his death with around 190 oil paintings. water colours and drawings from all periods, to be seen until May 27. This is one of the most com-prehensive Klee exhibitions ever.

Kunstsforum. Works by the

Romantics, ranging from Casper David Friedrich to Adolph

Museum für Volkerkunde has

a marvellously exotic exhibition called Jemen, focusing on the world around the Queen of

Sheba. Ends June 10. New York

New York Public Library. More than 125 documents of the Aboli-tionist Movement, including photionist Movement, including pro-tographs, letters and rare books, display the spirit and drive of the long effort to free the slaves. Ends Sept 15.

Jan Krugler Gallery. Graphics from the Marina Picasso Collection are on display under the title Picasso's Women. Until April 28. 41 E. 57th (755 7288).

Museum of Modern Art. In its serious, thorough way the museum gives its version of the history of photography, showing off earlier image-developing techniques along with 275 photographs. Ends May 29.

forms. The title role is excellently sung by the counter-tenor Paul Esswood. Also offered Tosca. Lohengrin with Eva Ran-dova and Toni Kraemer, as well as a Ulrike Sonntag Lieder

Opera. Saloms in August Everd-ing's production has first-rate cast led by Brigitte Fassbaender, Josephine Barstow, James King, John Broechsler. Von Einem's rarely played Dantons Tod proved a sensation when it opened in Johannes Schaaf's production with Annegeer Stun-phins, Maria Hausmann, John Broecheler and Alejandro Rami-

New York

Metropolitan Opera. The week includes a complete series of performances of James Levine conducting Otto Schenk's production of the Wagner Ring Cycle, but starts with Götterdöm-

merung, completing the first of the three cycles this season, and the three cycles this season, are starts over with the second per-formances of Das Rhebmook! Die Walkitre and Stegfried. James Levine also conducts the last easonal performance of Franco

rez. Guest ballet performance of the Lausanne Béjart group.

Rudolf Nursysv Farewell Tour. Charles Jude and members of Charles Jude and members of the Paris Opera Bellet and Royal Bellet join Nureyev in a mixed programme (Mon), Rennedy Cen-ter Concert Hall (467 4600).

Today the corporate communications network is

THEATRE

Anything Goes (Prince Edward).
Cole Porter's stilly ocean-going
1930s musical has four or five
marvellous songs and Elsine
Paige failing to emulate Ethel
Merman. Jerry Zak's desperately
bright production comes from
the Lincoln Center in New York
and is undernanding fare (734

Section 2018 Application of the committee of the form of the committee of in the Arts. The first major retro spective of the work of Dame Elizabeth Frink includes 60 sculptures and 25 drawings, saying life force while com including monumental brouze casts of male figures, portraits ting public suicide by vodks. Keith Waterhouse has stitched and animals in characteristic roughly textured heroic poses. Ends July 4. a fine play, the season's high-light, from Bernard's own writ-ing, Ned Sherrin directs. (437 2663).

(437 2863).
Another Time (Wyndhem's).
New Ronald Harwood play,
directed by Elijah Moshinsky,
about a white South African fam-Chicago Historical Society. The Land of Lincoln does its most famous citizen proud in the exhi-bition A House Divided. America in the Age of Lincoln, with docuily in Cape Town and Maida Vale. Albert Finney plays father in the Age of Lincoln, with opera-ments, mementoes and personal effects of the Great Emancipator. Calcago Blistorical Society. A special exhibit of Frank Lloyd Wright's designs for art-glass windows, furniture and silver vane. Attent rinney plays actors and concert plants son across 35 years, suggesting that talent is a means of escape and a reason for not going back. (967 1116). Aspects of Love (Prince of Wales). Andrew Lloyd Webber's latest (253 5672).

Wales). Andrew Lloyd Webber's latest. (839 5972). Shadowlands (Queen's). Fountissue weeple about the love affair between crusty Oxford writer C.S. Lewis and the cancer-riddled American poet Joy Davidman, which pushes Nigel Hawthorns and Jane Lapotaire into the awards stakes, (734 1166).

Cat on a Hot Tin Roof (Eugene O'Neill). Kathleen Turner, whose statuesque good looks embody Tennessee Williams' vibrant character Maggie, is surrounded by an excellent supporting cast in Howard Davies' production. in Howard Devies producted. Grapes of Wrath (Cott). The Steppanwolf company's interpre-tation of the Steinbeck spic noval has taken a long time to reach New York from Chicago; the wait was worth it, with the 1930s brought alive in its squalour as well as its test of human

strength. Heidi Chronicles (Plymouth). Heidi Chroincies (Plymourn).
Wendy Wasserstein's award-winning drama covering 20 years
in the life of a successful American baby boomer goes from support for Eugene McCarthy's preidential aspirations to electoral
ambitions in the 1980s, accompahed by the mystel and ame. nied by the musical and emo-tional flavour of the period (229 620).

Gypsy (St James). This 30th anniversary production does more than revive a rich, vivid musical; it also introduces a new belter in the Merman tradition, Type

in the merman trainton, Tyne Daly, as the bossy, tireless and tuneful Rose, who shamelessly leads her daughter into burlesque while rejecting a personal life for herself (246 0102).

Grand Hotel (Martin Beck). Tommy Tune, Broadway's pre-ent musical doctor, directs this remake of the Garbo film to at least shake the bones of this inert depiction of lives crisscross-

leading networking specialist. Our business is the

efficiency of your business. We will take the time and

ing in an elegant, but somewhat random setting (246 0102).
Sweeney Todd (Circle in the Square). An intimate production of the Southelm-Wheeler musical in contrast with the elaborate

original a decade ago emphasises the descent into madness of Bob Gunton as the demon barber of Fleet Street (239 8200). Cats (Winter Garden). Still a sell-out, Trever Nunn's produc-tion of T.S. Eliot's children's poetry set to music is visually startling and choreographically feline (239 6262). Les Misérables (Broadway). The magnificent spectacle of Victor Hugo's majestic sweep of history and pathos brings to Breadway sons in pageantry and drama

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(288 6200).
Planatom of the Opera (Majestic).
Stuffed with Maria Bjornson's gilded sets, Phantom rocks with Andrew Lloyd Webber's haunting melodies in this mega-transfer from London (239 6200).

Washington

The Cemetary Chib (Eisenhower). Elizabeth Franz, Elicen Heckart and Dorfs Belak star in new playwright Ivan Menchell's comedy of three widows who meet monthly to visit their brokends' grayes Engls April nds' graves. Ends April

Uncle Vanya (Goodman). Michael Maggio directs John Mahoney in David Mamet's new adaptation of the Chekhov classic. Ends of the Cheknov classic lines May 26, (443 3800). Steel Magnolias (Royal George). Ann Francis and Marcia Rodd play the leads in this view of southern life from under the drysouthern the from inter the dy-ers in a busy hairdressing estab-lishment (988 9000). I'm Not Rappaport (Briar St). Shelley Berman, one-time stan-dup comic, now plays Nat, Herb Gardner's memorable Central Gardner's memorable Central
Park character who gags his way
through the 1936 Tony Award
winner (348 4000).
The Good Times are Killing Me
(Body Politic). This City Lit production of Lynde Barry's first
play captures an American childhood with polgnant samness
(871 3000).

(871, 3000). Ellioti Lovea (Goodman Studio). Director Mike Nichols teams up again with writer Jules Feiffer to explore middle-aged love with the eponymous hero, who makes the mistake of introducing his new love to his old friends. Ends May 13. (443 3800).

Tokyo

Kabuki. Kabuki-sa (541 3131): two lavish mixed programmes (11am, 4.30pm) to mark the 50th anniversary of the death of the great Kabuki actor Utsemon V. great Kabuki actor Diaemon V. Among those appearing is his son, 76-year-old Living National Treasura Utaemon VI. The highlight of the evening programme is Kago Teurube, a famous 19th century play about a country bumpkin who falls in love with a courtesan, with tragic results. Excellent earnbone guide in Excellent earphone guide in English and English-language programme. Ends April 25.

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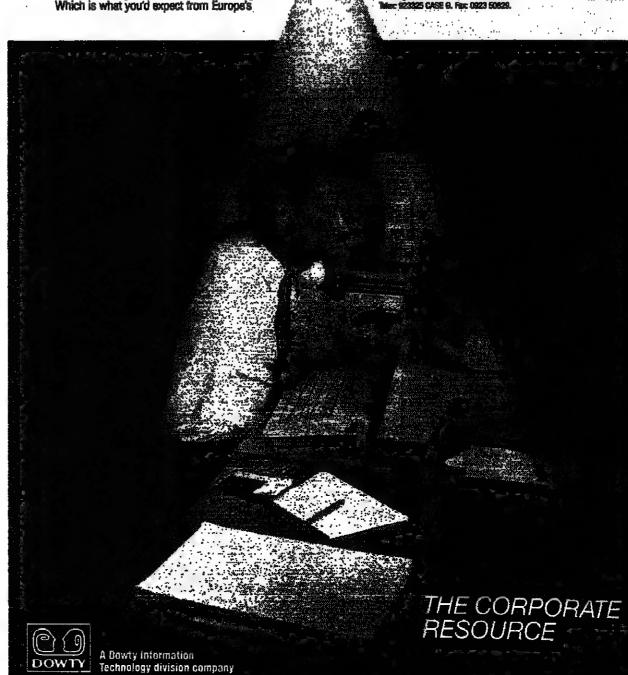
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Colourful days in Dublin

Patricia Morison reports on the rehang taking place at the National Gallery of Ireland

There is change in the misty air of Dublin, and the 1990s prom-ise to be an important decade for lovers of the fine arts. Last week I visited the National Gallery of Ireland to see the half-way results of the gallery's refurbishment programme, which has so far cost £1.5m. The rehung galleries were unveiled last month to mixed reactions, but Director Raymond Keavening is unrepentant about "maybe going over the top."

going over the top.

Italian Primitives hang on anaglyptic walls of lime yellow, Flemish masters hang on scarlet, there are rooms of Prussian blue, lime-green, and Prussian blue, time-green, and crimson. However, it is the Irish galleries which are the focus of debate. To the Gallery's habitués, James O'Connor's quietly verdant land-scapes and the furious palette of Jack Yeats probably do look rather different these days rather different these days. Before they were seen on dirty grey damask. Now they are on intense "Veronese green," as Keavening describes it. But then, half the value of a rehang is to make people look and think again. think again.

Paintings are no longer double hung, which means that rather more of the National Gallery's collection of 2,500 paintings is now in storage, Fine Italian carving on the doorways has been restored and awful radiators in the centre of rooms have been cased. Five massive Waterford Glass chandeliers hang in the origi-nal Sculpture Gallery. Its opulent decor of pale tangerine particularly suits Reynolds's portrait of the Earl of Bellamont, a ridiculous fop with a forest of ostrich plumes on top of his silly head.

Captain Francis Fowkes, an architect-cum-engineer. Fowkes was sent from London to rescue the project from Sir Charles Lanyon, an Irish architect with ideas considerably larger than the budget. Fowkes created the first gas-lit public collection, with Irish harps on the plaster work and maroon

At first the new Gallery had almost no pictures and a tiny budget. This may have been the reason for an early purchase of splendid 17th-century Italian paintings, notably two beautiful Giovanni Lanfancos they cover a lot of wall. The collection expanded under Directors kept permanently short of cash, so they bought many top-of-the-second divi-sion artists. It adds to the charm of the Dublin collection that it includes so many unfamiliar, and sometimes mysteri-

What, scholars have wondered, is going on in a Rem-brandtesque interior which shows men playing a parlour game? It could show a game called *La Main Chaude* which was crude even by the stan-dards of 17th-century horse-play. In which case, others object, surely there should be women in the picture? There is mischief, too, in Godfried Schalken's The Lost Daughters. A woman bears her breast and people peer to see that, yes, she has a mole beside her nipple. I also particularly liked a 15thcentury century panel by Nicholas Francis of St Jerome translating the Bible with three exhausted scribes alumped in front of him.

The Dublin collection has had its share of wavering attri-butions: A Titian "Ecce Homo," cruelly cleaned in the Light and opulence impressed visitors to the lesser artists, is now generally National Gallery when it opened in 1864. It was built by to the master. The "St Francis"

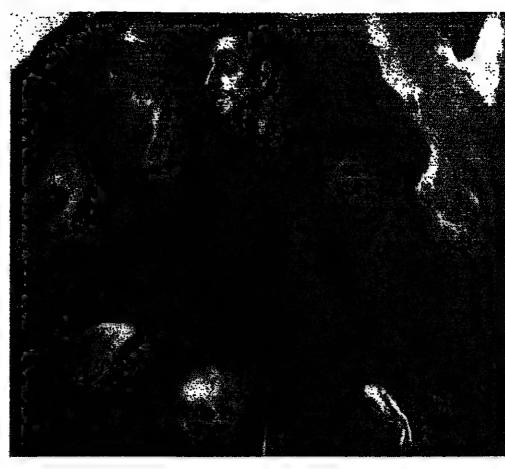
by El Greco, presented by Sir Hugh Lane during his Directorship, is also now regarded as an autograph work. Most recently, Rembrandt's only nocturnal landscape, a "Rest on the Flight," has passed mus-ter with the Rembrandt Research Project.

Money remains tight at the National Gallery. Irish paintings have become expensive and the Gallery's purchase grant is a modest £90,000. However, the statue of George Bernard Shaw on the lawn reminds visitors of his love for the Gellery. For 50 years after his death (i.e. until 2000) the his royalties, a sum which varies between £150,000 and £200,000 per annum. From a state of serious dilap-

idation, the 1864 and 1903 wings have been made ship-shape. The roofs are mended, stage. The roots are meanen, there is new lighting, fire-proofing, security and storage facilities. Now the 1968 wing needs complete internal reconstruction, costing £5 million. Connoisseurs of 1960s horror stories will not be surprised to hear that the wing her ways stories will not be surprised to hear that the wing has worn badly. The building is thin-skinned, badly lit, and stained hessian on the walls did nothing for the paintings. It became "a terrible embar-rassment" and even damaging to the cylindric. to the exhibits. Keavening is one Dubliner

who sees the good side of the imousines with blaring police escorts which ferry EC diplomats every few minutes into Merrion Square. Ireland's Pres-idency of the EC was a powerful card in persuading the exchequer to fund the Gallery's renovation. The calendar has been kinder still; in 1991 Dub-lin will be the Cultural Capital of Europe.

Even so, and despite funds from the state lottery, money is a more urgent preoccupation



Now authenticated: El Greco's "St Francis receiving the Stigmata"

than ever. Keavening dreams of an Irish patron equivalent to the Sainsburys, for here is another National Gallery with a splendid site to develop. This week the gallery acquired an adjoining site of 10,000 sq ft, fronting onto Clars Street, from the British developers Ryde International. Keavening frankly admits that he does not know where money for the extension will come from. In Ireland business sponsorship of the arts is at present small-

The EC effect may also be responsible for another cultural development. The Irish government has committed itself to establishing The Irish

Gallery of Modern Art, planned to open next year in the Royal Hospital at Kilmainham. The Director wil be Declan McGonagle, nominated for the Tate Gallery's Turner Art Prize in 1987 for his work at the Orchard Gallery in Derry. Sir Sidney Nolan has promised a large donation of his work and Mr Gordon Lambert, an Irish businessman, has also donated part of his collection of modern

The government restored the Royal Hospital at a cost of \$21m as a convention centre for the EC Presidency. It was then said to be too far from the centre of Dublin, which may bode ill for a major gallery.

Critics also object that the rooms at the Royal Hospital are too small for even moderately large canvasses. But if you are in Dublin with an hour to spare, take a taxi to the Royal Hospital. Modelled on Les Invalides, it was created by Charles II in 1679 to offer army veterans "a comfortable Retreat and Maintenance." It is a wonderfully elegant grey stone building round a quadrance and surgrayande by mende and surgrayanded by mende and surgray a rangle and surrounded by gar-dens and fields. At the moment the Royal Hospital is used for banquets, concerts, and artistic events. Its future is one more enticing prospect for Dubliners

Tancredi **GRAND THEATRE, GENEVA** Born Rossinians are a rare combine feeling with absolute

breed: all the more reason, then, to welcome Anne-Sofie von Otter to the fold. Having previously proved her distinc-tion in Mozart and the late Romantics, Miss von Otter has now launched herself into the bel canto repertoire in the title role of *Tancredi* at Geneva. Her performance, broadcast from the Grand Theatre last weekend on Radio 3, was of the kind that instantly stirs visions of all the other heroic mezzo roles in Handel and Rossini she will undoubtedly adorn in years to come. The way she has husbanded her artistic talent to date has demonstrated unusual intelligence and maturity, and this production clearly marks another staging post in her development.

Even before she sings a note,

Miss von Otter bears the incalculable advantage of a handsome stage appearance: her tall, slender profile and magnificent carriage lend a dramatic authenticity to a role hitherto associated with singers of plumper proportions. There is no striving for effect, no gesture or movement that does not seem natural to the almost god-like youthful warrior she is portraying. Even in a trouser role (flowing robes, actually, in this production). Miss von Otter never looks less than attractive,

These qualities are amply reflected in her singing, which benefits from a Mozartian nobility of tone, clear diction and composure. She has that rare gift of evenness through out the range, an ability to

respect for note values. At present the voice sounds under-projected in the theatre, an impression encouraged by the lack of a final flourish in her arias. The temperament is also a shade cool and Northern for a Mediterranean hero like Tancredi. But these are petty complaints when her performance as a whole is so eleva-

ting. Her principal partner was Katia Ricciarelli, a previously admired Amenaide who looked and sounded well below form on this occasion. Raul Gimenez's Argirio acted with dignity and seemed at ease with the suicidal tenor Tessitura. Harry Peeters, Suzanna Guzman and Donna Brown completed a distinguished cast. With Bruno Campanella bounc-ing up and down in the pit, the music was in safe but less than scintillating hands.

John Copley's staging, borrowed from Chicago, provided an elegant framework and looked well-rehearsed. The decor by John Conklin set the action within a theatre proscenium (closely resembling the Fenice where the work was first performed), filled with a succession of rich Gothic perspectives and drop curtains. Although Rossini's happy original ending is more in keeping with the piece, this production used the tragic alternative he wrote for Ferrara. Anne-Sofie von Otter justified the later version with her sublime vocal acting in the closing scene.

Andrew Clark

Crow

TROM THEATRE, QLASCOW

The dynamic theatre in the converted church near the old Glasgow Cross begins its build-up to the City of Cul-ture's Mayfest with the first in an astonishing sequence of world premières. Yet to come: a successor to the highly praised + Steamie+ that converts the space into a market; a new Marcella Evaristi; and the latest from Theatre de Complicité, based on the works of the Renaissance Paduan, Ruzzante, an earthily proletar-ian comic who may well strike a chord on the Clyde after four

Meanwhile the Tron has baptised a new auditorium. The Changing House, across a courtyard in what was the theatre wardrobe, seats only 50 and enjoys erratic sightlines from the back, but the bold choice of opener uses the limited space flexibly. The rad curited space flexibly. tains of the conventional rounded proscenium arch in fact separate us from an unseen audience beyond. Crow, a performer, bows to the invisible applause with his back to us before returning backstage to show how to manipulate the crowd's roar. Soon, with silent nano keyboard and breaking Sanjo-strings – not to mention bursts of Handelian choruses unpredictably triggered off by touching the prop furniture it becomes apparent that the form is manipulating him. The theatrical setting (Graham Johnston's design even colours the brick walls a rich

red and black) is the frame work for a two-man rendering of Ted Hughes' poem +Crow+. In white tie and tails Crow is soon dominated by his double: Douglas Henshall is wide-eyed innocence, Peter Mullan amister wide mouthed amusement. The company under Michael Boyd's direction have evolved a series of varia-tions to Hughes' text that exploit the tiny acting space to the full, resources ranging from a string of sausages that represents the divided worm shared between Adam and Eve to a trapeze, surfitles (+àla+ Covent Garden) and screen projections. The result conveys the poet's black trickster at one remove, as it were, an artificial distancing from the work as in the Walton-Sitwell +Façads+; an impression enhanced by Craig Arms-trong's music (percussion, harmonium, piano) and the occasional song from Julia Dow, coolly acknowledging the audi-ence as she drifts ethereally on and off. Dark gleams of misan-thropy – and misogyny – and a sense of inexorable pitiless-ness add an authentic whiff of Hughes' original. For those who (to me, inexplicably) com-plain of the British theatre's subservience to the word, this is an intriguing riposte: a theatrical arabesque, visual curli-cues to verbal themes that hold

Martin Hoyle

Le Train Bleu

OAKLAND BALLET, GALIFORNIA

Ronn Guidi, artistic director of the Oakland Ballet in the Bay Area of California, has shown commendable enterprise in his revivals of ballets from Diagniley's Ballets Russes. In particular, he has been a leading advocate of the work of Bronisiava Nijinska. The Oakland Ballet was the first American company to mount both Les Noces (in 1981) and Les Biches (in 1982), under the direction of the choreographer's daughter Irina Nijinska -- Raetz. Nijinska's reputation rests on those two masterpieces.

Other works are more problematical either difficult to revive or, to be honest, less worth reviving. Of the ballets she choreographed for Diaghilev, the most celebrated after Nocs and Biches was Le Train bleu (1924). Subtitled an "operette dansée," it typified his pursuit of the dernier cri during the second decade of his company's existence.
Like Les Biches six months earlier, it

peopled the stage with the bright young things of the 1920s. The setting this time was a beach on the Cote d'Azur. Jean Cocteau devised the filmsy libretto and the costumes were actual resort wear designed by Chanel, bathing suits and sports clothes. Darius Milhaud provided the score, the decor (dominated by two Cubist beach-cabins) was by the Romanian sculptor Henri Laurens, and a painting by Picasso of two monumental female figures running on a beach was enlarged for the drop curtain.
Although the more conservative

element of the Ballets Russes audience found the ballet frivolous, it was a big hit in Paris and especially in London. Frederick Ashton saw it there and said years later, "it was extraordinary the way Nijinska brought the modern world on to the stage."

The chorus of "tarts and gigolos" put on

dark glasses and went into slow motion to

Ensemble Orchestral de Paris conducted by Friedemann Layer, Tatlana Nikolaievna (plano).

Martinu, Mozart, Beethoven (Tue). Salie Pieyel (45638873). Ensemble Mosalques conducted by Christophe Coin. Haydin (Wed). Théâtre des Champs Ely-sées (47203637). Orchestre de Paris conducted by Samyon Bychloy, Pascal Mon

by Semyon Bychkov, Pascal Moragues (ciarinet). Bizet, Brahms, Franck (Wed, Thur). Salle Pleyel

Orchestre National de France conducted by Y. Menuhin.

Haydn, Brahms (Thur). Théâtre

Belgian National Orchestra con-ducted by Ronald Zollmann with Daniel Blumenthal (piano) playing Bizet, Saint-Seens and Tchsikovsky. Palais des Beaux-

Arts (Fri). I Flamminghi Orchestra con-

I Flamming hi Orchestra conducted by Rudolf Werthen in a programme of Bach and Swerts (Sat). Cercle Royal Gaulois. RTBF Symphony Orchestra conducted by Andre Vandernoot with Stephen Bishop-Kovacavich (piano) perform Beethovan (Sun). Palais des Beaux-Arts. European Philharmonic Orchestra with the European Community chorus and soloists perform Haydn's Die Jahreszeiten. Palais

Haydn's Die Jahreszeiten. Palais

New Belgian Chamber Orchestra conducted by Jan Caeyers with Jozef De Beenhouwer (piano), Mischa Mzisky (cello) and Augustin Dumay (violin). Schu-mann. (Sat). De Singel.

des Beaux-Arts (Mon).

des Champs Elysées (47203637).

celebrities on the beach. The original inspiration for the ballet was Anton Dolin's ability to perform various acrobatic stunts, such as single-handed handstands and cartwheels, which Nijinska incorporated into the choreography for his role of the Beau Gosse. When Dolin left the company at the end of the season, Serge Lifar attempted to learn the part, but could not manage these tricks, and the ballet was dropped. (Nijinska staged a new version at the Teatro Colon, Buenos Aires, Frank W D Ries, an American dance

watch the passage of an airplane

overhead, scattering leaflets. Later;

they produced box-cameras to snap the

scholar, who has spent many years researching Le Train bleu" - interviewing Dolin, Lydia Sokolova, Leon Woizikowski. and other dancers in the original cast last year undertook to stage it for Oakland. At first Irina Nijinska tried to prevent this, but after seeing rehearsals changed her mind and agreed to collaborate with Ries on the reconstruction. With choreography credited as "after Nijinska," Le Train bleu was performed in Berkeley, California, last November, and again during the company's recent East Coast tour at the State University of New York campus at Stony Brook, Long Island.

The production looks plausibly in the style of Nijinska as we know it from her two great works. The iconography of Le Train bleu is extensive, including several full-stage action photographs taken for the Times, and these familiar images occur in the revival. Another source for the reconstruction was Cocteau's libretto, which was full of stylistic directions to the choreographer. It seems that Nijinska ignored many of these, and relations between her and Cocteau

became strained. He made several last-minute revisions himself, substituting pantomime sequences for some of her

Partly because of this, no doubt, Train bleu seems less well integrated than Biches, whose neo-classic choreography transcends the triviality of the subject-matter (also originally proposed by Cocteau). The choreography of Train biau is more in the collage-like style of other late Diaghilev ballets: such elements as the acrobatics, exhibition ballroom dances (inspired by the cabaret team of Marjorie Moss and Georges Fontana), newsreel footage of the tennis champion Suzanne Lenglen, postcards and newspaper photographs, exist side by side with movements from the classic ballet vocabulary and Nijinska's characteristic architectonic groupings (such as a pyramid of male bathers).

Ries's exemplary reconstructions of dances from Broadway musicals of the 1920s and '30s doubtless helped in the retrieval of some of this material. Le Train bleu was clearly one of those ballets that depended very much on the personalities of its original interpreters, who were never replaced: Dolin, Sokolova as the bathing beauty Periouse, Wolzikowski as the Golfer (after the Prince of Wales), and Nijinska herself as the Tennis Champion. Michael Lowe, Abra Rudisill, Don Schwennesen, and Susan Taylor worked hard and were obviously carefully coached by Irina Nijinska and Frank Ries, but this kind of characterisation does not come easily to contemporary dancers. The corps de ballet sometimes looked as if they were doing "Sur la Plage" from The Boy Friend. I can't believe that every woman in the Diaghilev corps wore a kiss-curl in the middle of her forehead.

David Vaughan

April 20-26

The Dybuk

Theatre is this week present-ing a programme of fresh choreography, under the ill-advised title *New Worx*. Of the three pieces on view, two are inconsiderable save in their nuisance value. The third is a version by Kim Brandstrup of the celebrated Jewish play The Dybbuk, which tells of the unquiet soul (the eponymous Dybbuk) of a young man returning to claim a girl denied to him in life. In his recent creations Brandstrup - winner of this year's Olivier Award for choreography; a nominee for the Evening Standard ballet award - is much concerned with the problems of narrative. His beautiful Ofeo for LCDT solved the matter on stylistic terms: baroque conrentions supplied the legend's armature. In *Peer Gynt*, despite many felicities, a folk-simplicity seemed too rigorous a manner to carry the burden of Ibsen's characters. In The Dubof last year for his own Arc Dance Company) he has successfully used an invented folk-style to convey the intensity and almost ritualistic progress of the action. In a brilliant UFA-style set of

a grotesquely leaning interior (The Drawing Room of Dr Call-gari) by the Brothers Quay, to an accompaniment of Romanian folk-music, we see the heroine, Leah, prepared by her family for an arranged marriage. Haunting her is the ghost of her earlier love, Channon. Through the most direct means, with repetitions of movement, mimetic austerities, Brandstrup builds up tension to the moment when Channon finally possesses Leah. There is, until the very last, little that is overtly dra-matic or hysterical. There is, instead an inevitability and a developing sense of unease (admirers of Shirley Jackson's novels will recognise the pro-

London Contemporary Dance cess) which argues Brandstrup's constant concern for a clear and purposeful narrative language. Channon - well taken by Andrew Robinson is never frightening in behaviour, but wholly inescapable to Leah (Isabel Mortimer). Amid the shadows of the setting, the drama is unfailingly effective.' It is a dance work having a ing vision, and it is very welcome. There are good costumes by Craig Givens, good performances by the cast; atmospheric extra music by Ian Dearden.

For Aletta Collins' It's Gonna Rain, Tom Cairns has transformed the Place's stage area into a joyfully coloured box in primary colours, with a series of doors to left and right. In this arena eight dancers play children's games with limping runs, rushings through doors, tiny bursts of dance (fine, and well done), and hermetic dramss that sugrules are being made up as things go along. Fascinating for three minutes (if you can ignore the insane baying of Steve Reich's vainly repetitious speech tape - the muzak of Hell), the piece becomes insufferable thereafter. There are tiny, vivid moments; they do not compensate for the tape-loop tedium of incidents repeated ad nauseam.

The other piece of the even-

ing, Jo Ann Jensen's Noon Talk on Millionth Street 18 inexplicable. (I need only observe that Millionth Street runs between Angst Avenue and Pretentious Place, and that its inhabitants are afflicted with the galloping twitch, to identify the territory). It is danced to a string quartet by Scott Johnson; its cast con-tains some of LCDT's strongest ter address than this.

Clement Crisp

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FINANCIAL TIMES

ARTS GUIDE

the attention ungrudgingly for

MUSIC London

BIOC Phillismonaic Orchastra conducted by Edward Downes, with Neil Jenkins (tenor) and Dennis Simons (violin). Ravel, Sibelius, Szymanowski (Sat). Royal Festival Hall (928 8800). London Symphony Orchestra conducted by Rafael Frühbeck (piano). Besthoven, Brahms (Sun). Barbican Hall (638 8891). The London Phillismonic conducted by Zubin Mehta, with soloists and chorus. Verdi's Regulem (Sun). Royal Festival Hall (926 8800).

Regiment (255 800).
English Symphony Orchestra conducted by William Bonghton, with Michaela Fukacova (cello).
Parry, Elgar, Dvorak, Vaughan Williams (Mon). Barbican Hall (250 8001) (688 8831). The Philharmonia conducted by Neeme Järvi, with Yuri Bash-

net (viola). Bartok, Walton, Sbelius (Tues). Royal Festival Hall (928 8800). The London Philharmonic con-The London Philingmont cur-ducted by Zubin Mehta, with hishak Periman (violin). J.C. Bach, Elgar, Stravinsky (Wed). Royal Festival Hall (928 8800). noyal restivat dati (925 550).
The Philharmonia conducted
by Gluseppe Sinopoll, with Reiko
Watanabe (violin). Wagner,
Pagamini, Berlioz (Thur). Royal

Festival Hall (928 8800). Paris Ensemble 2e2m conducted by Paul Mefano, Irene Jaraky (soprano). Depraz, Mefano, Ducreux, Eliasson (Tue). Radio France, Grand Auditorium (42301516).

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Berlin Philharmonic Orchestra under Gerd Albrecht with the Scharoun-ensemble plays a Ger-man premiere by H.Joerns and Beethoven (Wed, Thur). Philhar-

Milan

Johann Strauss Ensemble con-ducted by Peter Guth (Tues). Conservatorio G. Verdi

Enrico Camerini (piano). Mozart, Chopin, Liszt and Albeniz (Thur). Teatro Ghione (6372294).

Madrid

Spanish National Orchestra conducted by Witold Lutoslawski, (Fri-Sun). Auditorio Nacional de Musica (337 01 00). European Community Youth Orchestra conducted by Mathias Bamert, with Salvatore Accardo (violin) and Mario Brunello (cello). Carter, Brahms, Prokofiev (Fri). Auditorio Nacional de (Fri). Auditorio Nacional de Musica (337 01 00). Berlin State Opera. Soloists, choir and orchestra conducted by Heinz Fricke. Wagner (Sat). uditorio Nacional de Musica (887 01 00).

Mario Monreal (piano). Beethoven programme (Sat). Funda-cion Juan March (435 42 40). Matthias Fletzberger (piano). Beethovez, Schubert (Tues). Auditorio Nacional de Musica (337 01 00). Spanish National Choir con-ducted by Alberto Blancafort. ninov (Tues). Auditorio

Nacional de Musica (337 01 00). Rosa Torres-Pardo (piano). Pro-kofley, Debussy, Gershwin, Stra-vinsky (Tues). Auditorio Nacional de Musica (337 01 00). Madrid Symphony Orchestra conducted by Max Bragado, with Carmen Gonzalez (soprano). Morales, Liszt, Granados (Wed). Auditorio Nacional de Musica

(337 01 00).
Orpheus Chamber Orchestra
of New York, with William
Purvis (horn). Haydn, Mozart,
Brahms. (Wed). Auditorio
Nacional de Musica (337 01 00). Wiener Streichtrio. Beethoven Krenek, Mozart (Thur). Auditorio Nacional de Musica (337 01 00). rdam Philharmonic Orches

ra conducted by James Conlon.

Mahler (Thur). Auditorio
Nacional de Musica (337 01 00).

Berlin Philharmonic Orchestra.
Soloists. Bach, Reger, Mozart,
Beethoven, Hartmann (Thur).

Auditoria Medical de Musica Auditorio Nacional de Musica (337 01 00). Barcelona

Soviet RTV Orchestra conducted by Vladimir Fedoseev, K. Rodin (cello), Vladimir Ovsinikov (piano). Tchalkovsky programme (Mon). Palau de la Musica Catalana (301 69 43). Wilbert Hazelzet (flute), Jaap ter Linden (viola), Jacques Ogg (harpsichord). Bach programme (Tues). Fundacion Caja de Pensiones (317 57 57). Orpheus Chamber Orchestzs of New York. Haydn, Shostakov-itch, Brahms (Thur). Palau de

la Musica Catalana (301 69 43). **New York** Mieczysław Horszowski piano

recital. Bach, Schumann, Beethoven Chopin (Mon). Carnegie Hall (247 7800). New York Philharmonic conducted by Leonard Slatkin with Emanuel Ax (piano). Mozart, Bolcom, Tchaikovsky (Tue); Yuri Temirkanov conducting. Shosta-kovich (Thur). Avery Fisher Hall, Lincoln Center (874 6770). New York Choral Society conducted by Robert DeCormier. Verdi (Thur). Carnegie Hall

(247 7800). Weshington

National Symphony Orchestra conducted by Lorin Maazel with Yefim Bronfman (piano). Debussy, Saint-Saens, Franck (Tue). Kennedy Center Concert Hall (467 4600)

Chicagu

Civic Orchestra of Chicago con-ducted by Michael Morgan. Shrude, Zappa, Goldstein, Dham-abutra, Corigliano. Orchestra Tokyo

Chicago Symphony Orchestra, conducted by Daniel Barenbolm. Brahms. Suntory Hall (Mon. Thur). Takemitsu, Ravel (Wed). Tokyo Bunka Kaikan (289 9999). NHK Symphony Orchestra, con-ducted by Herbert Blomstedt. Tchaikovsky, Larsson (Tues). Suntory Hall (505 1010). Imogen Cooper (piano). Schubert (Wed), Suntory Hall, Recital Hall (353 2242). Wiener Oktett. Brahms, Mozart, Furst (Wed). Suntory Hall

Leila Cuberii (soprano). Rossini, Respighi, Berlioz. (Thur) Bunka-mura, Orchard Hall (403 8011).

SALEROOM

Furniture makes good Christie's held a good solid sale

of English furniture yesterday which totalled £3,174,270, with a reasonable 13 per cent unsold. The top prices far exceeded expectations, espe-cially the £231,000 (top estimate £100,000) paid for a pair of George III mahogany com-modes. They are in the "French commode" style promoted by Chippendale and probably embellished adjoining bedrooms and dressing rooms which reduced the significance

of different pilaster ornaments.
A George III marquetry cylinder neo-classical desk, attributed to Ince and Mayhew, and virtually identical to a desk supplied to the Duchess of Nor-thumberland at Syon House around 1775, sold for £220,000, almost four times its forecast. Another lot of unusual design to do well was a pair of George II black and gold japanned armchairs by William and John Linnell made for the 4th Duke of Beaufort for the Chinese bedroom at Badminton House in the early 1750s. They had featured in The Treasure Houses of Britain exhibition in Washington in 1985 and went for £198,000.

Another item of noble prove-nance, a pair of Regency black and gold lacquer and japanned centre tables made for War-wick Castle, doubled the forecast at £148,000 while a George III Harewood, marquetry and

parcel-gilt side table, also dou-bled estimate at £121,000. record £1m for a lot of English

silver on May 3 when it offers the Dunham Massey sconces, a set of six George II wall sconces, made in London in 1730 by Peter Archambo. They were made for, and carry the monogram and coronet of, the 2nd Earl of Warrington. They have elaborate designs of mythological scenes and the additional mystery of being offered for sale by "a member of a Royal family."

A motorcycle owned by the late Steve McQueen is to be sold at Sotheby's auction at the Stafford County Showground on April 29th to coincide with on April 29th to coinci the 10th Anniversary Interna-tional Classic Bike Show. It is a rare 1937 Scott Flying Squir-rel mnotorbike and sidecar and expected to make £25,000. McQueen was a skilled motorcyclist, a talent he used to good effect in the movie The Great Escape.

The longest autograph manuscript by Beethoven to be offered at auction for many years appears at Sotheby's on May 17 when the 16 page first movement of his Sonata for Violincello and Piano in A Major comes under the hammer. Bids of up to £500,000 are anticapted.

Antony Thorncroft

FINANCIAL TIMES

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Friday April 20 1990

Europe's road to union

THE JOINT proposal by the French and West German leaders to complement a European Economic and Monetary Union of the Twelve with a political union could not have come at a more significant moment. At a time when the Soviet empire is disintegrating and countries in eastern Europe are reasserting their national identity, here is a proposal which would lead western Europe, at least, in the

opposite direction.
Quite apart from rekindling the debate between European federalists and those who want to see a much looser grouping of nation states, the Franco-German plan will be seen by its critics as irrelevant to the vast political and economic problems facing Europe as a whole. When you are trying to build a "European home" embracing both western and eastern Europe, why compli-cate matters by constructing an exclusive shed at the western end of the garden?

Yet the two projects are far from being mutually exclusive. Indeed, President François Mitterrand and Chancellor Helmut Rohl see them as intimately linked, with greater west European integration a condition of closer ties between the European Community and eastern Europe. The reasoning behind this argument is that in an increasingly fragmented Europe, there is a need for a cohesive nucleus of prosperous and democratic countries which will act as the motor for the rest of the continent.

Firm anchor

At the root of the Franco-German plan lies the common desire to see a unified Germany firmly anchored in west-ern institutions. It was no secret that President Mitterrand, though his concern was not expressed as vigorously as that of Mrs Margaret Thatcher, was equally worried by the possible consequences of the speed at which German unification was taking place. By proposing to give the European Community a political and security dimension in the near future, the aim of both the French and German leaders is to make sure that West Germany will not abandon its West European partners in favour of eastern ventures.

That is an objective which

the British government fully shares and it would be a tragedy if, once again. Mrs Thatcher were to set her face against a development of the Community which is inherent in its foundation charter. Because she does not like terms such as "European union" or "political union," which the Prime Minister fears are code words for the kind of federalist Europe she utterly rejects, she is again likely to have deep reservations about the latest Franco-German project. However, these terms, so loosely employed by European statesmen, do not necessarily mean all that the Prime Minister fears. The history of the Community shows that practically everything is negotiable, including the precise definition of a political union.

Pilot studies

For the moment, all that the French and West German leaders are proposing is that the member countries should launch preparatory studies ahead of an inter-governmental conference on political union which they would "like" to meet in parallel with a similar conference on economic and monetary union before the end of the year. Their objective is that economic and monetary union, as well as political union, should come into effect on January 1 1993 after ratifi-cation by national parliaments.

That timetable may well be over-ambitious and is clearly open to discussion. So, too, will be the proposed terms of reference for the studies, which should include, according to Mr Mitterrand and Mr Kohl, a strengthening of the demo-cratic functioning of the Community's institutions and the definition of a common foreign and security policy. Britain would certainly want to bring some precision to this agenda.

What is important is that Britain should be present from the very beginning at discussions which could give a new dimension to the Community's development. The UK's absence from the table would do little or nothing to halt that development. Its participation would ensure that a British stamp would be put on the shape of a European political

Mitterrand, the monetarist

profligate, country has been most prepared to accept high unemployment in order to rid his (or her) country of the scourge of inflation? Mrs Thatcher, comes the obvious, but wrong, response. The leader who deserves the monetarist palm is Mr François Mit-

Since the policy U-turn of 1983, France has pursued a single-minded disinflationary policy. Naturally, this being france, the policy is presented in mercantilist terms. It is competitive disinflation, with the principal competitor being its main European part-ner, West Germany.

The aim of French policy, an aim over which there has been

no real dissent in policy-making circles, has been to reduce unit cost inflation below the level of major competitors. From the discussion in the latest OECD report on the French economy, the policy has been remarkably successful. After a decidedly difficult decade, France now seems set to com-bine growth of 21/2-3 per cent a year with low inflation over

The contrasts with the UK are remarkable. In what started off as Mr Mitterrand's Keynesian France, broad money grew by 53 per cent between 1983 and 1989; over the same period, it grew by 142 per cent in Mrs Thatcher's suppos-

edly monetarist Britain. Mr Mitterrand's Socialist Government allowed real wages to rise by less than 6 per cent between 1983 and 1989. while Mrs Thatcher's allegedly harsh treatment of organised labour produced real wage increases of 20 per cent. Under Mr Mitterrand the unemployment rate rose from 8.3 per cent in 1983, to a peak of 10.4 per cent in 1987, and was still 9.4 per cent in February 1990. Under Mrs Thatcher, the unemployment rate peaked at 11.4 per cent in 1986, but fell quite sharply, to 6.1 per cent in February 1990.

European rivals

France paid a price for this austerity. For the five years, 1982 to 1987, economic growth ran at a compound rate of only 1.6 per cent. when the UK was basking in a rate of growth of 3.3 per cent. The 1980s were, in when the UK performed better than its European rivals and France performed markedly worse. The 1990s are likely to be rather different.

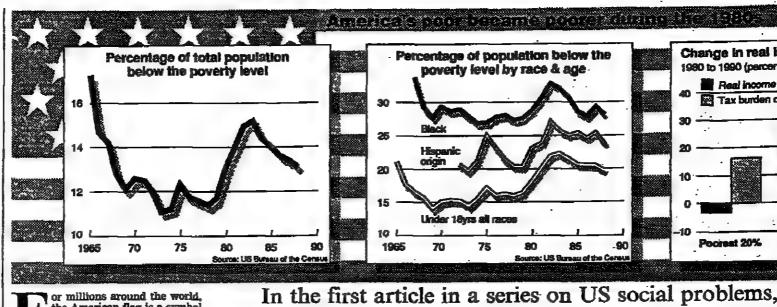
For France has not merely achieved its objective of low inflation, but has, unlike the UK, sustained that achievement. The differential in consumer price inflation vis à vis West Germany had fallen to only 1/2 per cent by the end of 1989. With nominal wages rising at less than half the rate in the UK and unit costs in manufacturing falling. France was able to improve its competi-tiveness against West Germany in both 1988 and 1989.

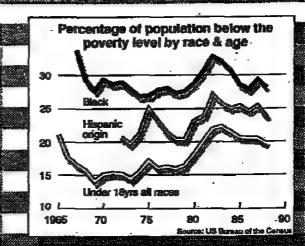
Nominal stability

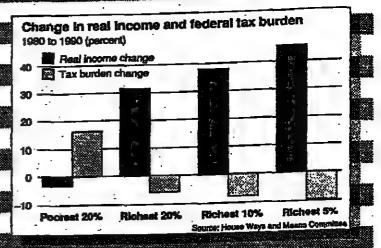
Some will argue that these French policies are not mone-tarist at all. But they have cen-tred on membership of the European Monetary System, through which France has imported the Bundesbank's unquestionably monetarist policies. Furthermore, international monetarism shares with monetarism in one country the conviction that macroeconomic policy must be aimed at nomi-nal stability not real activity. The most important differ-

UK has been one of emphasis: France emphasised stabilisa-tion before liberalisation, while the UK has, in effect, chosen liberalisation over stabilisation. Consequently the tools exchange and credit controls - will not be available to the UK, when it does become a full participant in the exchange rate mechanism of the EMS. Will the policy work without those supports? More fundamentally will the British people, like the phlegmatic, patient French, put up with the years of slow growth that may be required?

Whether the British do succeed in following Mr Mitter-rand's example, his disinflationary, mildly liberalising socialism has already proved influential, Mr Felipe Gonzalez is one disciple; Mr John Smith, Labour's Shadow Chancellor of the Exchequer, is another. Perhaps the main policy legacy of the 1980s will turn out to be neither "Reaganism" nor "Thatcherism." but "Mitterran-







or millions around the world, the American flag is a symbol of an economic and social sys-tem that works. No country is and the market economy than the US and no country offers the enterprising individual greater opportunities. In the past decade, the Thatcher Govern-ment has not been alone in seeking US remedies for domestic disorders.
But the US socio-economic model is not one to adopt uncritically. While much has gone right for the US in recent years, much has undoubtedly gone wrong. A quarter of a century after Lyndon Johnson launched his

"It's unduly optimistic to say we stood still in the 1980s," comments Henry Aaron, a senior fellow at the Brookings Institution, "we went back-wards on poverty and homelessness and the distribution of income

War on Poverty, social problems

remain acute.

became dramatically less equal."

Mr Aaron, a liberal (in the US sense), might be expected to criticise the social record of Presidents Reagan and Bush. There is, however, a broad consensus in Washington that a decade of Republican leadership has done little, if anything, to ameliorate deep-seated social disorders.

The most the libertarian right can claim to have achieved is a change in claim to have achieved is a change in attitudes; people are more inclined to distrust the federal government than in the 1960s and 1970s and less inclined to treat welfare payments as an "entitlement." There is much talk of "reciprocal obligations," and a greater willingness to seek state and local solutions to problems.

The cold statistics confirm Mr.

The cold statistics confirm Mr Aron's pessimism. There is no evidence that changed attitudes among the middle classes have helped the poor and disadvantaged. President Bush may be calling for a "gentler, kinder America." but the figures suggest the US is steadily becoming a harsher and meaner country.

Take poverty. In 1988, nearly 32m people were below the official poverty

people were below the official poverty line (about \$6,000 for a single person) compared with about 24½m in the late 1970s, when dole queues were of comparable length. As a proportion of the population, the poverty rate has risen from 11% per cent to just over 13 per cent. Many more families are classified as "near poor." the average pre-tax income of the bottom fifth of US families is only 84 per cent of the official poverty threshold.

Nearly a third of all Blacks and

more than a quarter of Hispanics are below the poverty line. Children suffer disproportionately. Among Blacks and Hispanics, child poverty is running at 44.2 per cent and 37.9 per cent respectively. Nearly a fifth of all American children are officially classically class sified as poor.

The plight of the poor contrasts vividly with the growing prosperity of upper-income families who benefitted greatly from sharp tax cuts under Reagan's supply-side experiment. Ms Anne Lourey Bailey of the Chronicle Michael Prowse examines the legacy of the Reagan years

The not so **Great Society**

on Philanthropy points out that the "super rich" – the top ½ per cent of Americans – now own nearly a quarter of all individual wealth. The top 10 per cent may hold nearly 65 per cent of the nation's wealth.

A recent report by the House Ways and Means Committee reveals stri-king changes in the distribution of income. It estimates that the top 5 per cent of US families will receive 26.2 per cent of pre-tax income in 1990 compared with 21.4 per cent in 1980. The bottom 20 per cent's share will fall from 4.5 per cent to 3.7 per cent over the period. Since 1980 the top fifth here enjoyed 8, 21.7 per cent fifth have enjoyed a 31.7 per cent increase in real incomes; the bottom fifth are 3.2 per cent worse off.

Growing poverty and inequality are only the tip of the US's social prob-lems. There is a national shortage of affordable housing. "Get off the sub-way in any American city," says Mr Barry Zigas, head of the National Coalition for Low Income Housing, "and you are stepping over people who live on the streets." He points out that the number of affordable units for rent has fallen sharply in the past decade while the number of poor households has soared.

The upshot is not just increased homelessness (which is estimated at anything from 350,000 to 3.5m people) anything from 350,000 to 3.5m people) but chronic overcrowding and severe budgetary strains on the low paid: 45 per cent of poor rental households now spend 70 per cent or more of their incomes on housing and utilities. Nearly a quarter live in housing officially classified as inadequate. Performance in other areas of social

policy is equally dismal. The US remains an exceptionally violent society. The standard of law and order taken for granted in most civilised countries seems unattainable. In 1988, by no means an untypical year, an astonishing 20,680 Americans were murdered: that is one person every 25 minutes. The tally in New York City aione was 1,876. In England and Wales, which has about a fifth of the US's population, there were only 624

homicides in that year.

Drug use among the young may have peaked. But the latest figures are scarcely a cause for celebration. In a recent survey, 3 per cent of high school seniors admitted to using engages 17 per cent said they took cocaine; 17 per cent said they took marijuana. Moreover, there is evidence that those who are still on drugs are using them more frequently and in larger doses.

Health care also poses apparently intractable problems. Expenditure rose sharply during the 1980s despite efforts to encourage greater competition between doctors and hospitals. The US now spends nearly 12 per cent. of GDP on health care — twice as much as the UK and proportionately more than any other industrial country. Yet between 31m and 37m Americans are without any health insurance; many more are undering. americans are without any heath insurance; many more are under-insured. Nearly half of the poverty population is not covered by Medicaid, the publicly subsidised programme for those on welfare.

Overall health standards are unim-

pressive: among OECD countries only Portugal and Greece have higher infant mortality rates than the US. In disadvantaged areas, US medical standards are closer to those of the Third



AMERICA'S SOCIAL CHALLENGE

World: in parts of New York, for example, life expectancy at hirth is lower than in Bangladesh.

Nor does the US appear able to educate its young effectively. About a quarter of the student population fails graduate from high school. The drop out rate is alarmingly high among Blacks and Hispanics at 35 per cent and 45 per cent respectively. Few of the young Americans who do com-plete high school attain worthwhile educational standards.

The problem is not merely that maths, science and literacy scores are low by international standards: few US students seem adequately pre-pared for everyday life. Tests suggest only 13 per cent of high school graduates can calculate a restaurant tip accurately. A mere 3 per cent can orally interpret distinctions between different types of amployee benefits.

Knowledge of American history (let alone world events) is sketchy; for example three out of four high school

juniors cannot say when Abraham Lincoln was president. Test scores achieved by college entrants are well below the levels of the early 1960s. The US thus faces chronic prob across the whole spectrum of social policy. It does not matter whether you look at poverty, inequality, housing, crime, drugs, health care or education: the US is either losing ground or

Even conservatives are unhappy with the legacy of the 1980s. Shuart Butler, of the Heritage Foundation, admits that the Reagan Administration lacked a coherent social policy. Unlike Lyndon Johnson, the architect of the "Great Society" programmes of the 1960s, Reagan failed to articulate a vision of society: he just strived to cut taxes and curb expenditure. "It was a case of hack first; rationalise later,"

says Builer.

President Bush's strategy is more subtle: it is to sound extremely concerned about social issues, but to do very little. The promotion of voluntary action through the "Points of Light Initiative" illustrates the approach. Every day, except Sundays and holidays, the White House locates a caring individual working for some good cause. The individual presives a good cause. The individual receives a rsonal letter of congratulation and is formally annointed a "Point of Light." The scheme costs almost nothing but generates much publicity – and derision.

On substantive issues Mr Bush

appears to be making little progress. The Administration has no strategy for health care reform. On education the policy is to encourage parental goals (for example that US school children should be "first in the world in maths and science") and shift as much responsibility as possible to state governors. Few observers expect standards to rise significantly.

Mr Bush is pouring money into the fight against drugs and perhaps making a little headway. Responsibility for fighting poverty has fallen to Mr Jack Kemp, the Housing and Urban Development Secretary, who is strug-

gling to implement Thatcherite policies. The Housing Opportunities for People Everywhere programme (HOPE), for example, provides grants and incentives for homeownership among the low paid. Such polices may provide marginal relief but they are not going to correct the fundamental imbalance in the housing market.

Mr Bush, despite his failure to confront domestic problems, is proving an exceptionally popular President. This presents something of a puzzle for Europeans steeped in social democratic traditions. Why do ordinary Americans tolerate a society that is in such disarray? Why is there not much

such disarray? Why is there not much

greater pressure for reform?

One answer, admits Isabel Sawhill, the director of the Urban Institute, is that "Americans lead fairly segregated lives." This is especially true of the capital city, where the Black/White divide is almost as clear cut. in South Africa. For middle class Americans living in pleasant suburbs, inner city areas might just as well be part of the Third World: children in East Harlem or South Chicago exert no greater call on the conscience than those in Bolivia or Ethiopia – they are part of "another America."

The second reason for inaction is that the conservative counter-revolution of the 1980s undermined (already fragile) confidence in Great Society type programmes. The problem is that nobody is coming forward with alter-

nobody is coming forward with alternatives that look plausible.

"It's a time of real befuddlement," concedes Frank Karel, a senior executive at the Rockefeller Foundation in New York, "we're in a period without leadership." Mr Karel, a southerner with conservative leanings, is not criticising the Bush Administration which he regards as more a symptom than a cause of the present paralysis. His argument is that social problems have grown more complex and that have grown more complex and that

no individual or group is now capable of "articulating a solution that commands consensus support."

Lurking behind the whole social debate is the President's infamous "read my lips" pledge — what Dr Sawhill at the Urban Institute calls the "comic opera" of faderal tay roll. the "comic opera" of federal tax pol-icy. Few experts believe that money alone can solve problems, but most accept that resources must be diverted into domestic priority areas if the US is to raise educational stan-dards, extend health care coverage, improve housing, reduce poverty and

Mr Bush is an exceptionally lucky President, Given the tide of international events and the possibility of substantial "peace divinend," a diversion of resources may not require higher taxes. The Administration may be able to tackle some of the US's appalling social problems without burdening the better off. But, given the public's low expectations, this will happen only if the President chooses to recognise his domestic responsibilities. At manager Mr. Bush seems in no ties. At present, Mr Bush seems in no mood to make the necessary personal

The mailman cometh

For someone who has lived more out of Britain than in it, there is a constant sense of amazement that the country is actually considered a democ racy. These bilious thoughts are not prompted, as they
might have been, by the ridiculous judgment against William
Goodwin of the Engineer
fined for not revealing the source of information on a company which could not be named in an article which was never even written. It is, not surprisingly, the poll tax, which dropped through the letter box in its pre-capping amount yesterday, which

excites the phlegm. Anyone with a passing knowledge of American political history (which rules out every British MP except Denis Healey and John Gilbert) knows perfectly well that the poll tax was a device used in the south to stop blacks voting. The only difference was that it was never felt necessary to dress it up with some high falutin' moniker, like community charge. Community is, parts of the south as a brand of strong, dark coffee; charged is what you get out of drinking

To the innocent abroad, it always seemed obvious that the intent of the poll tax was to disenfranchise the underclass in Britain, which is not very democratic. Yet we were repeatedly assured that there would be no cross reference between the poll tax and electoral registers. This seemed daft since neither would exactly be top secret lists, but

the fiction was pursued. Thus, in the House on July 1, 1987, Nicholas Ridley, dismissing the "schoolboy howlers" of the opposition, intoned: "there will be completely sepa-rate registers compiled on a different basis for community charge and for electoral purposes." Mrs Thatcher said pretty much the same on Feb-

OBSERVER

ruary 16, 1988. "Failure to register on the community charge register does not in any way affect one's right to vote. Any-thing said to the contrary is totally false."

Now, my wife is American, born in Alabama, if you must know. She cannot vote in this country but is liable for the poll tax (what was that old American slogan about no taxation without representation?). She indeed was polled, or com-munitied as we now say, filled in all the forms and waited.

And within ten days she got back a letter wondering why her name was not on the electoral register. So much for the letter of the law.

Corporal letter ■ There is another good letter going around this week. The

government's failure to take any direct action against the Fayed brothers, who took heavy stick in a Department of Trade Inspectors' report on the acquisition of the House of Fraser, has aroused the interest of the indefatigable Tam Dalyell, the Labour MP.
In his sights this week is Ridley, and perhaps Dalyell had looked up the Hansard extract quoted above. After watching the repeat of Channel Four's documentary The Harrods Sale on Good Friday, Dalyell has written to fellow old Etonian Ridley in his own inimitable style, "You and Douglas Hurd used to cane 13-year-olds for telling lies. Is ying now acceptable?"

Channel Four, meantime, is already at work on a new programme exploring the unanswered questions. They had better be quick. The way things are going these days new laws on privacy will probably prevent any serious investigation into the apparent reluctance of Tory ministers to pursue the issue.



"Still think it's an oil pipe?" Letter of the law

■ Absent a needed Bill of Rights, there is far too much tinkering around with laws these days. It is not only the bad ones coming in but also the good ones getting struck out. A perfect case in point is to be found in the new Finance Bill which has the brazen nerve to abolish one of the requirements of the Alcoholic Liquor Duties Act of 1979 that a distiller must provide lodgings for officers in charge of a distillery.

This clearly renders less attractive one of the most desirable professions. It may also be seen as a further attempt by the government consciously to allenate the Scots. Or perhaps it is a fur-ther disguised retreat from the community charge in Scotland. Presumably somebody would have to pay the poll tax

for accepting free lodging.

But, before castigating all who rule us, a thought should be spared for Viscount Caldecote. As chairman of the Crown Appointments Commission which advises, if that is possible, the Prime Minister on the choice of a new Archbishop of Canterbury, he is well aware that he could be undertaking a controversial

Before ennoblement his father, Sir Thomas Inskip, was given the post of Minister for Co-ordination of Defence by Baldwin, and Winston Chur-chill described it as "the strangest appointment since Caligula made his horse a consul."

Poll axed My colleague Peter Martin

tells me of a moment of acute embarrassment when he was plugging his new book, opti-mistically entitled How to Sur-vive and Prosper in a Recession, on local radio this week. Introduced as "a financial expert, he was immediately floored by a basic question about the poll tax. The embarrassment was heightened by the fact that the question was promptly and accurately answered — by the disc jockey. Clearly, when it comes to the really tricky financial issues, you should look for the man with the greying ponytail and the Grateful Dead tee-shirt. Maybe he should run for par-

Letter of credit It is pretty obvious that the Iraqis are not going to be deterred by mere laws to get what they need. Yesterday's example was a Reuters report from Rio that an Iraqi diplomat choked two parrots to death at Brasilia airport this week. Authorities said Kadaru Isamal became upset when prohibited from leaving on a flight to Baghdad because he was trying to leave with two parrots protected by Brazilian law. So he strangled the birds. Well, they could have been homing device pigeons in disguise.

Jurek Martin

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lmost overnight, the UK market for large scale L power stations has gone through an unprecedented

Demand for large, conventional coal and nuclear stations has collapsed. Smaller gas turbine-powered units known as combined cycle stations have arrived with astonishing speed to become the dominant technology for at least the next decade. And, after years of supplying into a protected industry, on ment makers are having chunks of the business taken them by foreign

competitors in a market that is now the most open in Europe. "It has been a real shock to the equipment industry," says Mr Kelvin Bray, chairman of the gas turbine arm of GEC Alsthom, the British-French yeavy engineering group. The consequences will have a significant impact not only on equipment makers but on Britain as a manufacturer of power station plant.

Electricity generation in Britain has been dominated by large coal, oil and nuclear sta-tions in which all the principal pieces of machinery - turbines, generators and boilers – have been supplied by British companies with proven technology using factories in the UK. As in the rest of Europe, it has been a closed affair, based on a close if sometimes fraught relationship between the Central Electricity Generating Board and the main suppliers of traditional equipment, GEC, Northern Engineering Indus-tries and, for boilers, Babcock Last year, the cancellation of taree large planned coal-fired stations and the virtual shelving of the nuclear station programme during electricity pri-vatisation wrecked all this.

As a result, smaller stations powered by gas have emerged as the growth technology for electricity generation in the UK. These combined cycle plants produce power not only from their gas turbines but also from an auxiliary steam turbine. In the new, frag-mented environment of electricity supply, such stations are more suitable. They are 20 per cent cheaper to build and their thermal efficiency (the ratio of energy produced to fuel used) is at least 50 per cent compared with 87 per cent for

big coal fired stations. But the emergence of this technology, requiring large gas turbines, has exposed a major weakness in the UK as a manufacturing country. Only one indigenous supplier, John Brown, produces such machines in Britain, and even that company imports a lot of the core components. Other

Power struggle

Nick Garnett on changes in the electricity market



Fiddler's Ferry power station: a trend towards smaller, gas powered plants

leading UK equipment makers have only recently entered the field through alliances with continental European compa-

nies. This weakness stems from the old structure of the elec-tricity supply industry. Under the old regime, the CEGB controlled power station demand, fuel, and as a consequence gave UK equipment makers no incentive to develop large combined cycle capability.

A further consequence is that foreign competition has become a fact of life. Within a few months, Siemens of West Germany has won the contract to build a 900 MegaWatt sta-tion at Killingholme, Humberside, for PowerGen, one of the successor companies to the CEGB. This was the first large-scale non-nuclear power station to be ordered in Britain

for nearly 20 years. Asea Brown Boveri (ABB), the Swedish-Swiss group, is building a 225MW power sta-tion in the North West in a deal involving Lakeland Power, which ABB controls, and Norweb, the north west England electricity board. Mit-subishi of Japan has won the contract for a 1725MW station to be built on Teesside for ICI and Erron, the US utility company. In all these cases, the successful hidder possessed gas

Out of the dozen or so power station projects above 200MW either planned or agreed, only one has gone to a British company. This is the 350 MW states of the contract of the c tion for Corby Power won by the European Gas Turbine Company, the gas turbine arm of GEC Alsthom formed a year ago between Alsthom of France and the heavy engi-neering interests of GEC. The gas turbines for that order will,

The UK's power station market has already become a free-for-all for foreign competitors

however, he made in France. From 1992, Europe's national power station markets will all be nominally open to foreign competition. But the UK has dy become a free-for-all. The British market faces two main questions. What are the factors governing who will get these orders for combined cycles, with an expected 8 to 13 ligaWatts of deals in the offing over the next 10 years? And, irrespective of that, how will all these changes in the industry effect employment

and manufacturing capacity in

the power engineering sector?

Four or five companies are

now competing head on in Britain. GEC Alsthom manufactures in France gas turbines designed by General Klectric of the US up to the 9E machine, a 123 MW unit. Before the forms tion of GEC Alsthom, GEC on its own did not have gas turbines large enough to meet

etary technology, makes the larger 13E unit, a 148MW tur-bine. It recently set up a joint marketing company for the UK with NEL This gives NEI and its parent, Rolls-Royce, access to big gas turbines for the first time. John Brown assembles and partly manufactures the General Electric 123MW, the same as that offered by GEC Alsthom. Siemens manufactures proprietary machines up to its 150MW model. Mitsubishi uses Westinghouse technology.

Securing orders in the British market is based on a matrix of factors, including specification, size, performance and the track record of the

The bigger Siemens and ABB machines have an advantage for some configurations. For example, two Siemens gas turhines harnessed to one steam turbine provide 450MW, which some competitors cannot reach with a similar configuration. Siemens is believed to have won the Killingholme deal with a very low price. Enron is a user of Westinghouse technology which influenced the

However, there is clearly a competitive technology battle between companies with supeach other. One important fea-ture is the level of thermal efficiency a machine can achieve without undue stress.

Mr Rolf Kehlhofer, market ing vice president for ABB's combined cycle business, claims the ABB model is the most efficient on the market with a thermal efficiency 4 per-centage points above the worst performer. A one per cent shortfall in operating efficiency equates to 3 per cent on elec-tricity prices, he says.

Some other companies chal-lenge ABB's claim. It is obvious, too, that if its 13E mo has an advantage it will be under attack soon from a new generation of machines. General Electric is developing the 9F model rated at 212MW. "We recognise that this machine will give GEC Alsthom an extremely strong position and we will have a problem unless we do something," says Mr Kehlhofer.

However, the first GEC Alsthom 9F will not be in service until June 1992. Meanwhile, Siemens is developing the V94.3. which Mr John Joyce, Slemens's deputy engineering director for combined cycles, says will be rated at bout 200MW. In a deal with Rolls-Roycs - which like Gen-eral Electric but unlike ABB and Siemens has jet engine gas turbine technology - ABB is collaborating on the develop-

Siemens has installed 30 combined cycle stations around the world, ABB about 50 but General Electric, including its manufacturing affiliates and associates, has supplied the biggest share of the mar-ket. GEC Alsthom has supplied more than 40. John Brown has built 14 and is on the short list for National Power's planned 600MW station on Humberside.

The dramatic shift in the UK ver station market is bound to have unpleasant consequences for employment and production capacity. Gas turbine stations require steam turbines, generators and boilers like big conventional staions. But the kit used is much smaller, requiring much less manufacturing space, and there is foreign competition for the ancillary equipment.

The size of British export orders for conventional stations will play a large part in determining how severe consequences will be.

Additional reporting by Mau-

Eastern European reform

Best of both worlds

By Michel Camdessus

he so far peaceful revolution sweeping through Europe raises critical questions. Will all its promise be fulfilled? Will the process of reform be derailed?

Can the people of eastern Europe enjoy the best of both worlds, by reaping the benefits of a market system while retaining some of the apparent security of the planned system? Can reforms be implemented gradually, to reduce the disruption? Most difficult of all: is it possible, after these countries have suffered scarci-ties for so long, to ask them now to undertake such hard adjustments? No one could preend to have complete answers to these questions, but experience suggests some pointers Attempts to find a "third way" between central planning a market econo not been successful. Partial reforms failed in both Hungary and Poland. Both now accept the need for a more fundamen tal reshaping of their systems,

If the aim is fundamental change in the system, it is probably a mistake to take a piecemeal approach. Because all the elements of the economic system are related, it is desirable, if you want a mar-

main elements at the outset. You will want a price system that sends the right signals to producers and consumers, that reflects relative scarcities, and encourages an efficient allocation of resources. Freeing prices also means moving towards a more flexible system of wage determination. With a freer wage system, you need labour market policies that encourage labour mobility. This also implies giving up some of the job security that has been a customary feature in these countries.

ket-oriented system to work

effectively, to introduce all the

With greater scope for mar-ket forces, you will have to allow more decentralised decision-making. Enterprise managers have to learn to be fully accountable for their decisions, in a system that permits both the rewards of success - profits - and the consequences of failure - bankruptcy. At the same time, a social safety net is needed. These domestic elements of reform will work best if the system is simultaneously reformed to open the economy to foreign competition and the

benefits of fuller participation in the world trading system. It is probably impossible to introduce these and the other necessary institutional and legal changes overnight, and it is important to design them carefully: but proper decision-making will develop more readily if elements of a mar-ket-oriented system are put in

The economic reforms will only produce good results if they take place in an environ-ment of strong financial discipline at all levels – from gov-ernments to individual companies. This means giving up long-held habits such as the tendency to subsidise or pro-tect inefficient or ailing companies. We know all too well industrial countries how hard it can be to resist pressures for such subsidies – and how costly it is to society if govern-

Economic reforms

The introduction of market

will only produce good results when coupled with strong financial discipline

reforms in centrally planned economies can unleash pent-up forces that are hard to predict and that need to be dissipated by appropriate policies. Prices are the most vivid example Typically the pre-reform price system will contain many prices - for basic food items, housing and fuel, say - that have been kept artificially low for social reasons.

Low administered prices usually conceal a huge amount of repressed inflation – excess money holdings and shortages of goods that are reflected in long queues, black markets, and cumbersome barter arrangements. When these prices are freed, and market forces start to produce a correct structure of relative prices, there is almost always an initial surge of price increases. This can be a relatively short-term phenomenon but only if financial conditions are kept tight enough to absorb the excess liquidity. If financial policies are loose, then inflation can snowball when price controls are lifted,

and a price-wage spiral can quickly get out of hand. Economic reforms alone are not enough. Reforming coun-

tries need financial assistance and investment. They will require considerable help from abroad, and a readiness on the part of the advanced industrial countries in particular to expand their trading and financial links with eastern Europe. The EC countries should continue to openly and generously welcome their eastern neigh

The IMF is extending substantial financial assistance to some of the reforming countries, to contribute to a closer integration of their economies into the global trading and financial network, and to act as a catalyst for financing from other sources.

Poland may be a test case for the comprehensive approach to reforms. It started from a situa-\$40bn of convertible currency debt, and entered the last quarter of 1989 with an inflation rate of more than 30 per cent a month, falling output, and a widening and unsustainable current account deficit. In this difficult position, the newly elected government has intro-duced, in very short order, a

major economic package.
There are grave risks in the
Polish programme, but so far the results are encouraging. We had thought that the first three months would be crucial particularly as regards infla-tion - and if inflation had remained out of control, then other elements of the package would have been doomed. But prices have stabilised, after an initial spurt in January, when

key prices were freed. On this basis, we are reasonably confident that the Polish programme will succeed, provided that authorities persevere with their reforms and the

external support continues. The years ahead will be difficult for the countries that are introducing reforms. There is much that the international can and should do to ease the transition and welcome these countries into a more complete participation in the world economic system. Everything must be done to help them suc-

The author is managing director of the International Monetary Fund.

LETTERS

Turkey's place in Europe

From Mr Nurver Nures. Sir, I find Edward Mortimer's article ("Is this our frontier?" April 3) quite distasteful and trivial in the extreme.

The logic of an argument that Europe could renege on its commitment to Turkey's even-tual full membership of the European Community now that the iron curtain is up is issupportable. Mr Mortimer tioning Turkey's secularity and introducing a note of doubt about the prospect of the integration of the Turkish nation with a largely Christian

I am indeed shocked to find Turkey's European identity judged by religious criteria by someone who professes to be knowledgeable about Turkey. It is, in the first instance, fatuous to imply that fundamentalism as such is gaining a foot-hold in my country. Given Turkey's unblemished record of nearly seven decades of sec-ularity, it is unthinkable that the system could deviate from its present laical and pluralistic course. Mr Mortimer should have mentioned that out of 24,603,541 votes actually cast in the 1987 general election only 7 er cent went to political parties purporting to give more weight to the role of religious beliefs in their programmes. This percentage has been

steady over decades. Mr Mortimer, with effortless superiority, also implies that the so-called Christian legacy of solidarity against the Otto-man Empire remains a key component of European identity. Such claims are surely anachronistic. Mr Mortimer himself states that "to many people, indeed, the very mention of religion will seem obscurantist and reactionary." In this context I think it is also

important to remember that the Ottoman administration in Europe had an exemplary record of religious and racial tolerance. If this were not the case, it would be impossible to explain how the Greek Orthodox Patriarchate in Istanbul and the Orthodox churches in the Balkans and the Near East flourished for half a millen-nium in the midst of an

"Islamic" empire. Mr Mortimer is also on weak ground in implying that Tur-key's Nato membership hardly seems to be a relevant crite-rion any longer for membership of the Community. He is apparently ignorant of the increased political significance of Nato in the shaping and stahilisation of European security. Turkey has been an integral part of Europe for six centuries and surely has a role to play and is a voice to be heard in

As for Turkey's full-membership of the Community, Mr Mortimer seems to be unaware of the European Commission's opinion of last December whereby Turkey is deemed to be eligible for integration. The Commission was recently asked by the EC Council to draft as soon as possible a series of detailed proposals for a programme of comprehensive co-operation with Turkey that goes far beyond the existing association agreement. This is a further step in the right

irection. Mr Mortimer's entire article is based on false assumptions.
The Moslem religion is the last of the major religions and is therefore liberal, forgiving and encompassing. With these tenets, to think of Islam as a threat to Furnes is charmon. threat to Europe is sheer non-sense. It is such minds as that of Mr Mortimer which were to some extent responsible for the recent rise in fundamentalism in Islam, a reaction which is not limited to the latter but exists even in this great country where democracy flourishes at its best.
Minds like Mr Mortimer's

will probably be surprised to see that as east European countries emerge in the form of new democracies, there will also be a revival of religion —
how extensive we shall have to
wait and see. What is happening in the Islamic world, including Turkey, is that, with growing economic improvement, people are more con-cerned with their roots and hence show growing interest in religion which has, as in Chris-tendom, helped to mould their socio-cultural identity. In this process the world of Islam is destined to find its identity as the Christian world did and

there is no threat whatsoever.
If we look at Europe, its past, present and future through the restrictive perceptions of Mr Mortimer, solely in terms of Christianity and Islam, it would be tantamount to reviving the world of crusades, an intellectual exercise inviting explosions. Even from the religious point of view there are so many similarities between these two major religious which we can build upon and so leave to future generations a world more tolerant and enriched, in practically all

I honestly and sincerely feel saddened that such a misleading article was given such prominence by the FT, a paper many of us read and respect. It is a disservice to our cherished religious and unfortunately inflames fundamentalism. Nurver Nures, Ambassador, Embassy of Turkey, 43 Belgrave Square, SW1

Women at work: myths and evidence

From Mr Peter Robinson.
Sir, I should like to challenge the statement by Anne Shows-tack Sassoon (Letters, April 12) in reply to Martin Wolf's article ("Some myths about childcare," April 9).

She states - without evidence - that "women work part-time in Britain to the extent that they do, in large part, because of lack of nurs-ery, after-school, and holiday

This statement is simply not borne out by evidence from the Labour Force Surveys, which is the only systematic evidence at hand. The 1989 Labour Force Survey showed that fewer than one in 20 married women and one in eight single women were working part-time because they could not find a full-time job. The vast majority said they did not want full-time work. It is also a mistake to give

the impression that countries like France and Italy are "good" places for female workers, when unemployment rates for women in those countries are much higher than those for Britain is unusual in having a female unemployment rate below that for men, even including women unregistered for benefit.

The broad thrust of Mr Wolf's article was correct in countering the widespread notion that there will be a labour shortage in the 1990s which will demand a vast increase in child care provision in order to encourage greater female labour force participa-

Over the next decade, the labour force is already forecast to rise by nearly im as the increased number of adult job seekers will more than outweigh the fall in young people in the labour market - and this is quite apart from the effect on employment of the deteriorating economic situa-Any expansion of nursery

educational merits and not as an employment initiative. Peter Robinson, Deputy Director. Campaign For Work, Assezs B. Tottenham Town Hall, Town Hall Approach Road, N15

provision, as opposed to child care, should be discussed on its

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AL IS STREET

logic in VAT being administered by the Customs & Excise who had the experience of

Sir, I read with interest Dominic Taylor's article ("Perils of the final VAT penalty, Value-added tax was introduced in 1972 as a "simple tax" and, at that time, there was a

From Mr C.M.M. Crichton.

1/4

administering purchase tax.

Today VAT is much broader based than purchase tax and

increasingly complex. This complexity is of real concern to many businesses as the requirements of the Customs & Excise for VAT, differ from the requirements of the Inland

Revenue for income/corpora-

tion tax. It now seems that a stage has been reached in the evolution of VAT where VAT and income/corporation requirements must be syn-

This, in turn, should mean that the Inland Revenue now assumes responsibility for

VAT and income/corporation tax requirements

VAT. For businesses this change could lead to a slight reduction in costs for account-ing for VAT. However, it would certainly lead to a large reduc-tion in the hassle and expense of professional fees in arguing on "grey" areas. C.M.M. Crichton, Monzie Castle, Crieff, Perthshire

BUSH, MITTERRAND TALKS

US shelves plans for new nuclear missiles

THE US is to postpone indefinitely production of new short-range nuclear rockets to replace the ageing Lance missiles in West Germany, the Administration confirmed yesterday.

The initiative is part of a developing US-sponsored plan to shift Nato's emphasis from land-based nuclear forces to air-launched nuclear missiles. It could also involve redeploy-ment of nuclear forces from a united Germany to other members of the alliance, according to western diplomats in Wash-

ington.

Washington's aim is to respond to the easing of tensions in Europe and the impending unification of Germany, while ensuring that Nato remains the cornerstone of the visited and the statement of the visited and of the western alliance. President George Bush

spelled out this message during talks yesterday with President François Mitterrand of France in Key Largo, Florida. The meeting follows a similar informal session with Mrs Margaret Thatcher last week.

The consultations aim to hasten progress on Nato's new military posture, which will be discussed in detail at a meeting

CLOSER international

co-operation and tougher laws

co-operation and todgets were to combat drug money launder-ing were urged yesterday by a task force representing the world's leading industrial

Their report, the culmination of nine months' investiga-tion initiated by the Group of

Seven at their Paris summit

last year, represents the most high-powered response yet to

The report says that interna-

tional co-operation is still ham-

the drug money problem.

By David Lascelles, Banking Editor, in London

pered by excessive bank tion of the task secrecy, by the absence of laws mendations; and



G7 urges tougher penalties on drug money

of the Nuclear Planning Group of Nato defence ministers in Canada early next month. Once a consensus is reached within Nato, Mr Bush is expec-ted to propose immediate nego-tiations with the Soviet Union to eliminate short-range nuclear weapons in Europe. US officials declined to comment on reports that Mr Bush would propose that France pro-

many countries, and by short-comings in mutual legal assis-

It makes three central recom-

without further delay, ratify the 1988 Vienna Convention

which obliges signatories to

outlaw drug money launder-

ing, and creates channels for international co-operation;

That financial secrecy laws

should be amended where nec-

essary to permit implementa-tion of the task force's recom-

mendations

aircraft as part of the planned redeployment of the alliance's air wings.

Under President Charles de Gaulle, France left Nato's inte-Gaplie, France left Nato's inte-grated military command in 1966, and the prevailing view in Washington is that Mr Mit-terrand would find it politically unacceptable to reverse this decision.

improve multilateral co-opera-tion and mutual legal assis-

tance in investigation, prosecu-tion and extradition of money

There are a further 37

The task force estimates the

size of the drug money prob-lem at about \$122bn a year, of which about \$85bn finds its

way into the financial system

But the report also says that

detailed recommendations which flesh out the report's

aundering cases.

US officials said Mr Bush had a more limited aim of coaxing France to be more sup-portive of US efforts to give Nato an expanded political role, and to win broad support for his emerging arms control

At her meeting with Mr Bush, Mrs Thatcher signalled that Britain would be prepared to drop its insistence on modernising the Lance missiles in West Germany. But she stressed that Britain wanted to see an appropriate mix of conventional and nuclear forces in

Britain has still to decide whether to collaborate with the US or the French on a new air-launched missile, and this subject is also bound up in Nato's discussions on its future military posture. The US Lance nuclear mis-

siles are deployed with six Nato armies, including the US Army, and are mostly, but not all, located in West Germany.

Even though the US is resigned to cancelling a replacement for Lance, a senior Administration official said it was essential to maintain a US nuclear presence in

should make them easier to

The report was presented to

national parliaments by finance ministers yesterday.

Mr John Major, UK Chancel-lor of the Exchequer, said Britain had already imple-mented many of the recom-mendations but further mea-

sures were being considered to reinforce defences against money laundering both inside and outside the formal finan-

Money laundering under siege.

detect.

IMF issues

Fund has warned the Spanish Government that it must swiftly reach an agreement with employers and trade unions on boosting competi-tiveness to avoid a further deterioration in inflation and

inflation and a worsening of the trade balance made the (economic) advances achieved so far unsustainable in the

misses the argument that Spain should devalue the peseta, saying such a move. suggested recently by the Bundesbank, would undermine the important disciplinary reasons for joining the exchange rate mechanism of the Euro-

Government

economy may not work in time to ensure a smooth entry to the single European market in The IMF team, which recently spent two weeks in Spain, says: "It would be really unfortunate if a resurgence of

inflation of more than 7 per cent so far this year and wage settlements for 1990 of about 8.3 per cent, will be music to the ears of Mr Carlos Solchaga, the Finance Minister. Some analysts even suggested yester-day that Mr Solchaga may have dictated the text of the

note.

Mr Solchaga has already persuaded Mr Felipe Gonzalez, the Prime Minister, to propose a "competitiveness pact" to the political opposition and the unions. The Government denies that this is merely a way of securing a wages agreement with the unions and says it is trying instead to link tax it is trying instead to link tax reform with union agreement on productivity.

Mr Gonzalez wants the par-

Mr Gonzaez wants the par-liamentary opposition to col-laborate on the tax reform, which would be designed to encourage savings. In return, he is promising the right-wing parties, which represent the business world, that he will represent a dialogue with the reopen a dialogue with the unions in the hope of improv-ing productivity and moderating wage demands.
The shape of the proposed

competitiveness pact remains ill-defined. The IMF note tries to put some meat on the idea.
"The fiscal reform in progress," says the note, "provides an opportunity to reach agreement on taxation and sala-

The three-way pact, the report says, must not damage the liberalisation of the Span-ish economy achieved so far, nor impinge on the ability of employers to contract tempo-

With a tough credit squeeze already in place for a year and the peseta trading at the top of its EMS band, Spanish compa-nies are beginning to view the advent of an open market in Burope in 1992 with a far more

attributed equities' poor performance to the recent fall in the US financial markets.

US Treasury bond yields

warning to **Spanish**

THE International Monetary

the current account deficit.

In a note to the Spanish Finance Ministry, an IMF team of experts warns that wages are rising so fast that the Government's efforts to cool the economy may not work in time.

long term."
The IMF's tough language, based on last year's record \$11.6bn current account deficit,

ries... provided it is not achieved at the cost of budget-ary equilibrium."

rary workers.
The IMF note helpfully dis pean Monetary System last

By Peter Bruce in Madrid

According to one school of thought, the yen has turned the corner. The weakness of US bonds and equities in the last couple of days, together with the strength of Japanese equities and the bounce in the yen, is taken as evidence that Japanese investors are finally making the switch.

In logic, there should come a point where Japanese institutions with heavy book losses on their domestic portfolios are driven to taking profits on their US bond holdings to make good the shortfall. The drop in the yield differential between US and Japanese bonds in the past fifteen months has been very striking; and from a Tokyo viewpoint, it months has been very striking; and from a Tokyo viewpoint, it has been accentuated by the weakness of the yen against the dollar. If undertaken en masse, a switch of funds back to Tokyo would be at least partly self-justifying through the effect on the exchange rate. But it is not clear that the confidence yet exists for such a

confidence yet exists for such a general move. Some still argue that short-term Japanese rates have to be raised again to match US levels, despite the inflation differential. And both the yen and the Nikkei, after all, are still within the trading ranges established over the past fortnight.

past fortnight.

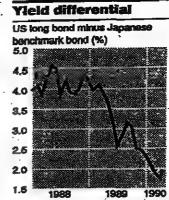
But it is worth recalling that a serious repatriation of Japanese funds would be the mechanism for transmitting the pressure on Japanese financial markets to the rest of the world. It is not quite clear what has brought the UK equity market, for instance, to its low for the year. But if, as seems likely, the problems are still largely domestic, the inter-national backdrop is scarcely

Marshall Field

Yesterday's most eloquent comment on BAT's sale of Mar-shall Field was the near 2 per cent drop in the shares of the purchaser, Dayton Hudson. The \$1bn-plus price tag is at least \$150m better than Wall Street expected, which prompts three thoughts. First, this is further evidence that BAT's stewardship was never quite as arthritic as Hoylake made out. investment into Field, partly to spruce up its Chicago flagship store, presumably leaving it in much better shape than other US department stores now on the block, like Bonwit Teller. A second point is that the price bodes well both for BAT's disposal of Saks Fifth Avenue, and for the progress through Chapter 11 of the former Cam-

The downside of

a rising yen



pean retailing businesses, nota-bly Bloomingdale's. But the spectacle of Minneapolis-based Dayton buying Field suggests something else too.

If real estate-rich retailers

from Illinois are so attractive, perhaps Sir James Goldsmith at al should call it a day on his increasingly pointless run at BAT and have a go instead at Chicago's other retail institu-tion, Sears Roebuck. Sears' conglomerate character and lowly p/e make it eminently unbundleable. And its Allstate insurance subsidiary is not unlike BAT's Farmers in business mix and distribution methods; but it is twice as big, which would satisfy the Bons-partist ambitions of Hoylake's partner, Axs.Midi.

Rule 144a The US may still be the

world's biggest borrower, but the approval by the US SEC of its new rule 144a paves the way for its re-emergance as a major source of new capital for non-US corporations. The decision to open up the US private placement market by greatly increasing the number of US investors who can play in it is a major step in the right direction. Professional investors do not need the same safeguards as the small private investor; and the US action could raise. and the US action could re-ignite fearsthat London's new regulatory structure may be damaging its competitive post-

kets.
The new SEC rule, which widens the net of potential US investors from less than 100 institutions to well over 2000, will considerably increase the size and liquidity of the \$200bn US private placement market. It could double or treble the size of the average foreign private placement, and should

increase the appeal to those big borrowers who do not want to comply with the onerous SEC registration conditions for

public issues.

Ideally, big West German and Swiss borrowers who still maintain hidden reserves would probably prefer the US to go the whole way and accept reciprocal listing arrangements. However, Rule 1442 goes a long way to meeting ments. However, Rule 144a goes a long way to meeting their concerns; and there must be a danger that the attractiveness of the new market could undermine the appeal of the listed ADR market for foreign borrowers. However, the immediate benefit of the change will be felt by managers of global equity issues, who can now increase the size of their offerincrease the size of their offerings by promising a sizeable private US placement.

Albert Fisher

In view of yesterday's fresh evidence of how well Alberg Fisher works as acquirer and operator, it gets harder to see why the food distributor had such a complicated £180m capital-raising exercise in January. Even before any more acquisitions the company has a £22m capital spending programme this year, which will take a chunk out of its income. But most of Fisher looks securely cash generative; and within yesterday's interim taxable cash generative; and within yesterday's interim taxable profits up 24 per cent like-for-like, trading margins rose significantly. Fisher's £80m cashpile is not excessive, since its average acquisition size is about £35m. What was surely not necessary was the recent warrant distribution, a deferred call for another £110m. A good company should not underestimate shareholders by implying they would not ers by implying they would not support another proper rights issue when the time came.

Oil money

In the current hostile climate a 2149m rights issue is reasonably noteworthy, especially when one of the company's biggest shareholders is British and Commonwealth. However, yesterday's 11:10 rights issue from Midland & Scottish Resources, one of last WOLGEL STOCKS OF THE USM, is even more interesting It is not yet paying a dividend and the bulk of the money is going to buy a half built mobile oil production facility. which has yet to find work, from the company's managers. This may yet turn out to be another Lasmo, but it is best to let the big institutions bet on

The Japanese work hard. They are flexible. Clever, self-disciplined. All qualities they learnt at school.

The British are, well, different. And they learnt that at school.

The Economist this week has a lot about education, in Japan and in Britain.

Buy it today. You could learn a thing or two.

Contras sign ceasefire pact in Managua stations were cautious vester

THE Nicaraguan government and leaders of the US-backed Contra rebels signed a definitive ceasefire agreement in end to almost nine years of war which has cost an estimated 50,000 lives. The ceasefire comes into effect immediately, and will be

followed by assembly of the 12,000-strong Contra army in five enclaves ("security zones"), covering about 2,500 square kilometres in the north and centre of the country, by Wednesday of next week, when President-elect Violeta Barrios de Chamorro will take office. Government troops are being

withdrawn to at least 20km from the edges of the enclaves. and UN peacekeeping troops will be in place by the weekend to supervise compliance by both sides with the peace

A separate demobilisation agreement was signed by Contra leaders and representatives of the incoming government, with Cardinal Miguel Obando y Bravo of Managua as a wit-ness. This sets a deadline of June 10 for total disarmament and demobilisation of the Contra forces.



Chamorro: taking office

The latter point was the most contentious of 21/4 days of negotiations, and nearly torpedoed the ceasefire talks. On Wednesday, Dr Aristedes Sanchez, Contra spokesman, said in Managua there would be no demobilisation of the troops until there were reductions in the size, and changes

cial Nicaraguan armed forces, which are still controlled by the outgoing Sandinista admin-

appeared unwilling to sign the ceasefire agreement without a firm timetable for the demobilisation of the Contra forces, in the president-elect and the other Central American presidents, who set a demobilisation deadline of next Wednesday at

a regional summit this month. The face-saving compromise thus allows the Contras to hand over their weapons to the new government of Mrs Chamorro, whom they supported in the electoral campaign, and not to the outgoing Sandinista Government, which they have fought, with US finance and support, since 1981. Before this agreeement, the

Sandinista leaders had assented to the principal of significant reductions in the 80,000-strong Nicaraguan armed forces, once the Contras had been demobilised and in accordance with a regional agreement over mutual force reductions in Central America. However, commentators on government-controlled radio

day in their support for the peace agreement, saying that a previous ceasefire accord. signed in 1988, had collapsed when Contra leaders reneged on it. The Contra commanders who signed that accord were dismissed after a coun within the movement. Mr Israei Galeano, known as

Commander Franklin and now commander-in-chief of the bulk of the Contra forces, is not a signatory to the new ceasefire and demobilisation agree-

However, Commander Ruben, head of the Contra negotiating team in Managua, assured reporters: "I represent the chiefs of staff of the resistance forces and I have come here to sign the ceasefire in compliance with orders given to me by Commander Frank-

In a related development, Mr Bernard Aaronson, US Under-secretary of State for Inter-American Affairs, was due to visit Nicaragua yesterday after talks in Washington by Presi-dent George Bush and Presi-dent Rafael Callejas of Hondu-

Marshall Field sold

Continued from Page 1

the acquisition would be financed with a combination of internally generated funds and a mix of debt instruments. Shares in Dayton Hudson had fallen by \$114 to \$6912 by mid-day yesterday on the New

In the US, BAT has already arranged the sale of its Breu-ner's furniture retail and rental subsidiaries and hopes for a quick sale of its Ivey's specialty department stores once it has divested the bigger companies.

Inflation fears send UK market to new year low

By Rachel Johnson in London

among the leaders, of the offi-

THE UK equity market hit a new low for the year yesterday as investors succumbed to concerns about rising inflation and the receding chances of a Conservative Party victory in the next British general elec-

The FT-SE 100 share index

fell through the psychologi-cally important 2,200 level to close at 2,184.7, down 21.2 on

the day.

City of London economists said the market was dominated by inflation fears which had been not been eased by

rumours that the annual increase in the retail prices index would exceed 16 per cent in April. The potential impact of a Labour Party government on the financial markets - especially after the favourable reception given to Mr John Smith, the opposition Labour Party economics spokesman, by US authorities during his visit this week - had also

They said that equities had

sensitive to the possibility of a

until now - been much less

begun to sink home for the

Labour Party government than bonds. Yields on bonds have tended to rise about half a point in reaction to the publication of each opinion poll showing the Labour Party's big lead over the Conservatives. "One new factor in the poor outlook for bonds, and now equities, is that political risk is now uppermost in investors' minds," said Mr Mark Brown, a

market strategist at UBS Phillips and Drew.
While fears about rising UK inflation were uppermost, City

have been rising sharply this week in anticipation of higher interest rates to curb inflation-ary pressures. This dragged down prices of bonds and shares on both sides of the Atlantic, and yesterday started what one trader described as a "lousy day" in London. UK government securities also came under renewed pressure. Currencies, Page 46; World Stock Markets, Section II

Continued from Page 1

first time.

port of Klaipeda, 360km away from Lithuania's refinery. Mrs Prunskiene told a press conference in Oslo yesterday that the Soviet oil and gas blockade was "not unex-pected." But she added: "A closing of our economic borders in the east strengthens our decision to open up new borders to the west.

The mood in Vilnius, the republic's capital, was reported calm as the Baltic state was Lithuanian industry, includ-

ing large chemical plants, telies heavily on gas for power

generation. It is not technically possible for Norway, to supply gas to the country because there is no transportation infrastructure. Mr Algimentas Cekuolis, a spokesman for the Lithuanian

Government said: "People here are saying 'So we will have no fuel supplies. Well, we will ride bicycles and bring out the wooden stoves for cooking. Why not? Independence has to

Today is a very beautiful day the streets and people are discussing politics everywhere. I

can't say were afraid, we've independent) and that's it."

Lithuanian leaders yesterday issued appeals to save energy and met to consider how to distribute remaining resources. Mr Ceslovas Jursenas, a government spokesman, appealed on the radio for the "most thrifty" use of energy.

WORLDWIDE WEATHER

Lithuanians stand firm over blockade

left with enough energy to keep households going for up to six weeks.

Ms Ilona Rukiene, a journalist at Radio Vilnius, said: here, there are fewer cars on

use of gas, petrol, any heating or lighting, let us do this and then we will be able to survive



FINANCIAL TIMES COMPANIES & MARKETS

Friday April 20 1990



Leading banks give a strong performance

Banque Nationale de Paris, the largest French state-owned bank, reported an 11 per cent increase in net profits, despite a 31 per cent increase in bad debt provisions. Meanwhile, BankAmerica, the second largest US bank holding company in terms of assets, surprised analysts with higher first quarter profits than expected. Page 24



The yen's fall could scarcely have been better timed, at least as far as the Japanese textile group Kanebo is concerned. Kanebo struggled through the 1980s, viewing the strong currency's effects on export markets with Ill-disguised alarm, It was forced into a painful period of cost-cutting, and has steered itself back to stability. Now the challenge for the 1990s will be to turn that stability into a longer-term recovery. Page 27

Curbing drug money launderers



Street sales of cocaine, heroin and mated to total \$122bn each year, of which \$85bn is available to be laundered through the banking system, Some 40 proposals for curbing auch izundering are contained in a report Common released by the world's leading

industrialised countries. The measures include limitations on bank secrecy and better monitor ing of cash movements. Page 30

Grand designs

Midland & Scottish Resources, the loss-making USM-quoted company and one of the most entrepreneurial oil production groups in the North Sea, announced a £149.2m (\$243m) rights issue to acquire the world's largest floating oil production facility. The rights issue is unusually large for a relatively small company, while the structure of the deal is exceptionally complicated, reports David Thomas. Page 35

Little rest for Anglo American



Angle American, the group headed by Gavin-Relly (left), has a reputation as one of the country's most liberal mining houses. Yet it is also which suffers most from industrial unrest. Thus, it was no surprise that mines managed by the

group showed that activities on several mines were hampered by industrial action and other production problems during the March quarter.

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Market Statistics

Base lending rates Benchmark Govt bonds FT-A indices 'FT int bond service

London traded options -London tradit, options Miniory statistics New Int. band issues World commodity prices World stock mixt indices

Companies in this section

Fizit Auto
Fiziter (Alberti)
Frost Group
General Dynamics
Georgia-Pacific
Great Southern American Express American General Anglo American Apple Computer Astra Holdings Atlantic Computers Ivory & Sime Jacobs Suchard Azucarera Espanola . 24 Lep 28 Liberty 24 Lockhee BZW Low (Wm) Midland & Scottish Bongrain 24 Miskin 24 NL Industries Bowater Inc Bristol-Myers Squibb Brown & Jackson Northern investors Chase Manhattan Pearson Pioneer Int'l Reebok Rockfort Conner Peripherals Crean (James) Royal Trustco 34 Runciman (Walter) 24 Seagate Technology 32 Shell Oil

Chief price changes yesterday

Unitali Falls Carrelour CGE F898 + 13 3490 617 624 5320 350 Prima Mest Sunitomo kad TOF Pilses Digital Equip Steel Teradiza Seis Toyo Eng Wics Fallin Talsel Fire -- 60

- 23 173 127 Paridicid 315 Sayki Beechan 479 169

Alcatel earnings jump 33% to Ecu478m

ALCATEL, the French electronics group, announced yester-day that earnings soared by one-third in 1989 and that one of its owners, Compagnie Générale d'Electricité, had increased its

Net income jumped 23 per cent to Ecu478m (\$529m) last year from Ecu361m in 1988 on robust growth in all product sectors and geographical areas. Revenue climbed 15 per cent to Ecul2.8hn from Ecul1.1hn, fuelled, in particular, by public telephone networks and cables.

Mr Pierre Le Roux, the group's financial officer, forecast that the

ment maker would increase its profits and sales again in 1990. But he declined to specify the

"Alcatel has entered the 1990s with a three-year record of solid achievement, declared Mr Pierre Suard, chairman and chief executive officer. "We have increas our market shares. We have donbled our net income. And we've considerably strengthened our financial structure."

Alcatel was founded in 1986 by the merger of CGE's Alcatel tele-communications business and most of the worldwide telecommunications operations of ITT, the US conglomerate.

CGE recently bought an additional 1.5 per cent stake in Alca-tel at "fair market value" from Crédit Lyonnais, Mr Suard dis-

That gives CGE a 63 per cent stake in Alcatel through a European holding company con-trolled by CGE. ITT retains 37 per Since its founding, Alcatel has

vied with its arch-rival, American Telephone & Telegraph of the US, to be the world's largest telecommunications group. At a news conference in Amsterdam, the home of Alcatel's legal division, the French group declared it had won 15 per cent of the world mar-

ket for public telephone switch-That top spot, along with lead-ing shares in telephone transmis-sion, business systems and cables made Alcatel the world number

one, Mr Suard insisted. Widespread restructuring had also yielded fruit, he noted. Alcatel expects turnover in eastern Europe to nearly triple this year to Ecu200m from

Ecu80m in 1989. It has joint venture agreements for the manufacture of telecommunications equipment in East Germany. Hungary and Yugoslavia, and views them as long-term invest-

Mr Suard also announced that Alcatel would sign an important Ecu40m contract with today. Alcatel will provide 300,000 lines of System 12 digital telephone exchange switches, trans-mission equipment and cables to

Sichuan province.

Alcatel's profitability – as measured by income before taxes. non-recurring items and minority interests - rose to 4.1 per cent in

1989 from 3.2 per cent in 1988 and 2.4 per cent in 1987. The debt-to-equity ratio shrank to 27 per cent at the end of 1989 from 35 per cent at the end of 1988, thus lowering debt in spite of higher interest rates.

Martin Dickson reports on the political and legal barriers to BTR's takeover of Norton

Changing the rules of the ballgame

If you enjoy costly games of chance, where the rules can change with alarming speed, and if you take a masochistic leasure in being politically vilipleasure in being pointenty varied, then you can do no better today than be a foreign company launching a hostile bid in an economically depressed region of the

That, at least, is the leason BTR, the aggressive British industrial conglomerate, must be drawing from the mounting oppo-sition to its \$1.64bn takeover bid for Norton, a manufacturer of abrasives based in the Massachu-setts town of Worcester.

sects fown of workster.

Yesterday a group of congressmen from Massachusetts, led by Senator Edward Kennedy, began a protest campaign against the bid. They urged President Bush to block the takeover attempt on the grounds that Norton was a "critically positioned US com-pany" which "sits on the border of a whole new frontier of technology" and has research and development capabilities that are

Rep Ronald Dellums, leader of the black congressional caucus, has also urged President Bush to block the offer, claiming that BTR has "one of the worst labour records of any multi-national company doing business in South

The position-taking in Washington is unlikely to improve BTR's public image, but it is questionable whether it will have a vital effect on the bid battle. For one thing, it is not as if BTR After a succession of mostly friendly acquisitions over the past decade and a haif, it already has a very sizeable presence in

That said, state-level politics have already changed the course of the contest significantly: Mr Michael Dukakis, the Governor of Massachusetts, signed into law this week a piece of anti-takeover legislation which requires companies in the state to have stag-gered terms for directors, with

one third elected every year.

The hill was rushed through as a specific response to the BTR bid, since the British company, faced with the opposition of Non ton directors to its offer, had been seeking to oust them through a shareholders' vote at the annual meeting, due to be held next Thursday.

The legislation underlines a growing tendency for US states to adopt rules which severely restrict takeover activity. The most radical of these is a law, due to be enacted in Pennsylvaforce corporate raiders to "dis-gorge" profits on failed bids and make it much harder for them to gain control.

gain control.

But despite these political set-backs, most analysts believe BTR is still likely to swallow up Nor-ton – provided it is prepared to wait long enough, fight its way through a host of legal complexi-ties and sweeten its bid with rother more cash. That is corrather more cash. That is cer-tainly the lesson contained in the Norton share price, which has



Cahill must tackle US opposition from the likes of Dukakis and Kennedy

above, the \$75 a share on offer since the start of the contest. Whatever the outcome, the bid an important test for Mr John Cahill, BTR's chief executive. It is not the first hostile bid by the group since he took over this position from Sir Owen Green, the architect of BTR's remark-able growth, but Mr Cahill has

been particularly publicly involved in the Norton campaign. Where does his assault on Norton go from here? The next crucial event is next Thursday's when BTR will seek to place three directors — the maximum permitted under the new Massachusetts regulations - on the Norton board.

BTR has already won at least one victory in that Norton has fought, and so far failed, to have the meeting postponed by the courts for two months while it bolsters its defences. It is now trying to restrict the ability of investors backing BTR to vote their shares at the meeting. Provided Norton fails with this tactic, and does not come up with

any more surprise legal obstacles before the meeting, BTR should get its three people — John Cah-ill included — on to the board, since over 60 per cent of Norton's shares have already been tendered for its offer.

At that point, a very interesting game of boardroom dynamics would begin. At worst, BTR might have to wait a year before the new Massachusetts law allowed it to seek a majority of

But long before then the three BIK representatives would b making life very uncomfortable for their boardroom colleagues, trying to press them into negotiations with the UK group.

Norton, for its part, still has several useful, but not necessarily fatal, arrows in its quiver, a poison pill plan which would automatically dilute BTR's holding in the group, and a 1989 Mas-sachusetts law which could delay completion of the deal for three

But Norton is also vulnerable in several areas. It has evidently

been looking for a white knight to ride to its rescue, or at least take a minority stake in the busi-ness. None has appeared so far and Wall Street analysts doubt whether one will, given the depressed state of Norton's markets and the relatively generous level of BTR's offer, at 19 times historic earnings. So far, Norton has not publicly addressed the criticisms of its flat profits per-formance levelled by BTR.

All this apart, Norton directors will be only too aware that, like US board on the receiving end of a bid, they are walking a fine line between ensuring that their company is not sold cheaply and attracting shareholder suits for resisting a fair offer.

Somewhere in all this, there may be the makings of a compromise settlement, although it would almost certainly take several months and a few dollars more. "BTR's ultimate weapon is money," concludes one analyst. Whether Mr Cahill would be prepared to pay the price for peace is

Peugeot expected to increase UK investment

By John Griffiths in London

SUBSTANTIAL new investment in Peugeot's British car operations is expected to be trig-gered by the announcement yesberday of further record profits by Peugeot Talbot, the UK sub-sidiary of the French vehicle

group.
Spending of £100m (\$163m) or more to provide Peugeot Talbot's Ryton plant near Coventry with the capacity to build 200,000 cars a year — thus matching the scale of plants being set up in the UK by Japanese rivals — is understood to be planned following Peugeot Talbot's announcement of a pre-tax profit of £135.3m last year, up 26.8 per cent on

The latest figures mark the third year of a spectacular finan-cial turn-round for the company, which between 1978 and 1986 ran up losses totalling more than

While Peugeot Talbot would neither confirm nor deny the potential investment figures, Mr Geoffrey Whalen, the managing director, has indicated that a decision on investment could be announced later this year.

It is likely to include a new paint plant and flexible assembly equipment which would allow Peugeot Talbot to build two models at Ryton. Currently it is prodncing only the Peugeot 405

medium car range.
"Ryton was always conceived of as a two-model plant," accord-

ing to Mr Whalen.
A move to increase capacity is almost a necessity if Peugeot Talbot is to continue to assemble cars in the longer term in compe-tition with the UK plants of Toyota, Honda and Nissan.

The company last year produced 107,500 cars, up 38.5 per cent on the previous year. Of these, more than 60 per cent were exported.

Mr Whalen says he expects

total output to reach 120,000 cars this year, in spite of a slight downturn in the UK new car market. The company says this is the maximum which can be achieved by the plant without investment.

Pengeot Talbot has also put itself in its French parent's good books by further repayments of £200m received from Peugeot in the troubled early 1980s. Last year it paid a dividend of £60m relating to 1988's results and a further £30m relating to last

Last year's performance meant that Peugeot Talbot paid a sub-stantial tax bill, of £30.5m, for the first time since the 1970s. This dropped its net profits to slightly below 1988's level to £104.8m from £106.8m.

Court appoints trustee to run Eastern at creditors' behest

By Roderick Oram in New York

MR FRANK Lorenzo has lost control of Eastern Air Lines, the ailing carrier be struggled for a year to rebuild under the protec-tion of the US bankruptcy court. Agreeing to a request from Eastern's unsecured creditors, Judge Burton Lifland has appointed a trustee to run the airline and to work out the best way to meet creditors' claims.

He chose Mr Martin Shugrue, a former vice-chairman of Pan American World Airways who was later president of Continen-tal Airlines. Like Eastern, this is owned by Texas Air, the holding company which Mr Lorenzo con-

Mr Shugrue quit Continental in February 1989 after a year on the job. He was reportedly angry that Mr Lorenzo failed to give him the chairmanship of Conti-Given their past clashes, Mr Shugrne and Mr Lorenzo could have a strained working relationship, analysts said. Texas Air said it would not appeal against the court decision and "will co-operate fully" with Mr Shu-grue. "Texas Air presently intends to continue to work with and support Eastern in all reasonable ways."

Appointing a trustee is unusual in big US bankruptcy cases. Typically, the court prefers to let the existing management work out a restructuring plan.

Eastern has repeatedly fallen short of its goals since it was hit by a machinists' strike and a milote' walkout a year ago. It is pilots' walkout a year ago. It is now offering about 80 per cent of its pre-strike schedule, using newly-hired pilots.

Five different repayment plans Eastern proposed to creditors

originally promised full repay-ment, his latest offer per \$1 of debt was only 5 cents in cash and 20 cents in Continental paper.

The unsecured creditors, who are owed more than \$1bn, rejected the offer and pressed the court for the trustee. They said in their filing: "The entire estate is in jeopardy of disappearing, leav-ing the creditors, who have stood with Eastern for a year, with

With mounting losses which totalled \$325m last year and East-ern's constant requests for rene-gotiations, "creditors have justifi-ably lost all confidence in management," the creditors said. Appointing a trustee is "a very negative statement on the credi-bility and performance of man-agement," said Ms Malva Rabi-

nowitz, a Deloitte & Touche partner specialising in corporate reorganisation. have been overtaken by mounting losses. Whereas Mr Lorenzo

American Express \$620m in loss

By Janet Bush in New York

AMERICAN Express, the US financial services and travel group, yesterday announced a net loss of \$620m in the first quarter due to the troubles at Shearson Lehman Hutton, its brokerage subsidiary.

The negative effect of Shearson, which had a net loss of \$915m in the quarter, overshad-owed record results in American Express's travel, financial and information services businesses. Earnings at the American Express Bank were lower than a year ago.
The loss of \$620m, or \$1.50 a

share, compared with net income of \$252m, or 59 cents, in the first three months of last year. Revenues rose slightly to \$5.91bn from \$5.87bn in the year-ago quarter. Mr James Robinson, chairman of American Express, said: The

impact of the Shearson charges is in line with previous estimates. We've come through a tough quarter and we're looking forward to building on our considerable strength well into the

Shearson, which has recently received \$1.35bn in fresh capital from American Express, took a restructuring charge of \$630m and an accounting charge of \$157m against its first-quarter earnings. American Express recognised these charges under its merger agreement last month through which it will acquire all the shares of Shearson it does not

already own. American Express Travel Related Services reported a record \$215m net income for the quarter, 16 per cent higher than a

These results were driven by earnings growth in the American Express card business worldwide. The IDS Financial Services division also had record earnings of \$44m, up 21 per cent from a year ago. This was achieved primarily from a rise in assets

owned or managed to \$48bn, 18 per cent higher than a year ago. The information services division, which includes credit card processing and money transfers, made record first-quarter net income of \$22m, up 27 per cent from a year ago. American Express Bank

reported net income of \$30m, compared with \$35m in the first quarter of 1989. These results include a pre-tax gain of \$72m from the sale of TDB American Express Bank, its Swiss-based

This announcement appears as a matter of record only

April 1990



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11% despite increase in bad debts

By George Graham

BANQUE Nationale de Paris (BNP), the largest French state-owned bank, has reported an 11 per cent increase in net profits to FFr3.41bn (\$606.8m), despite a heavy increase in bad debt provisions.

The bank improved its operating profits to FFr11.3bn. up 17 per cent from the previous year, with French activities advancing by 18 per cent to FFr8.5bn, and foreign business up 13 per cent to FFr2.7bn.

BNP boosted its new bad debt provisions by 31 per cent to FFr6.7bn, lifting its stock of provisions to FFr44.6bn.

Mr Jacques-Henri Wahl, joint managing director in charge of international affairs, said that BNP had made FFr2.4bn of new provisions on sovereign debts, but in addi-tion had set aside FFr924m for unpaid interest, following the suspension of debt service by, for example, Brazil, Argentina

BNP also provisioned another FFr920m for risks in consortium banks in which it is a shareholder, essentially Banque Internationale pour l'Afrique Occidentale (BIAO), the stricken West African com-

Mr Wahl said BNP had already provisioned FFr600m on BIAO in 1988. Last year, it made another FFr600m provision, and its results were also hit by BIAO's FFr337m net loss. Cameroon, Senegal and the Ivory Coast, three of the worst affected subsidiaries, were, however, not consoli-dated, because BNP plans to shed them as soon as it has negotiated its withdrawal with the governments concerned.

The group also had to provision FFr370m for losses incurred by its Swiss subsidiary in the financing of oil trading, and has injected FFr200m of fresh capital into this subsidiary.

Royal Trustco climbs by 20%

ROYAL Trustco, Canada's largest trust company, reported a 20 per cent gain in first-quarter net profits, mainly because of the acquisition of Pacific Trust Financial Corp in Gibbens in Montreal.

Earnings were C\$72m (US\$62m), or 40 cents a share, up from C\$60m, or 41 cents, on fewer shares outstanding a year earlier. The company issued ilm new shares to pay for the acquisition of the US

BNP net up Bristol-Myers expands to \$409m

world's second biggest drugs company which was formed last year in a \$11.52bn merger. yesterday reported a 19 per cent increase in first-quarter net earnings to \$109.1m or 78 cents a share, from \$343.6m or 66 cents a year earlier.

The company, which took a series of hefty charges last year related to the merger, said sales in the latest quarter grew 9 per cent to \$2.46bn from

International sales grew more quickly than domestic

BRISTOL-Myers Squibb, the sales, in spite of being hit by world's second biggest drugs an unfavourable dollar exchange rate. The company's overseas sales rose 13 per cent compared with a 6 per cent improvement in domestic

Earnings before tax grew 16 per cent to \$594.6m from \$514.1m. The results were in line with expectation on Wall Street, and

shares in the company moved down \$% to \$53% in mid-ses-sion trading on the New York Stock Exchange. The New York-based company also said it had agreed to sell its Genetic Systems business to a subsidiary of Sanofi of France for an undisclosed sum. Sanofi is part of the Elf

Aquitaine group.

Genetics Systems is an in vitro diagnostics company which develops and markets tests for infectious diseases. Its leading product, according to Bristol-Myers Squibb, is a highly accurate test to screen AIDS antibodies. It was founded in 1980 and had sales last vear of about \$10m. Schering Plough, another

pharmaceuticals company, has also reported strong first-quarter earnings. Net income advanced 20 per cent to \$150.4m or \$1.33 a share although sales grew more slowly, by 4 per cent to

Excluding divestitures in 1989 and the impact of fluctuating foreign exchange rates, sales advanced 8 per cent in

the latest quarter.
The company attributed the improvement to the strength of its worldwide pharmaceutical

Californian market helps BankAmerica

By Roderick Oram in New York

BANKAMERICA, the second largest US bank holding company in terms of assets, yester-day reported higher first-quarter profits, marking a continuation of its recovery from its travails of the mid-

Net income for the three months ended March totalled \$278m. or \$1.23 a share, a better result than many analysts had

The year earlier net of \$275m. or \$1.38 on 12 per cent fewer shares, had included interest payments from Brazil

which boosted net by \$38m. No payments were received in the test quarter. The strength and diversity of the California economy has helped to insulate us from

some of the financial stresses in certain US markets," Mr Tom Clausen, chairman, said. Total domestic loans grew by 18 per cent to \$60.03bn from \$50.91bn. Foreign commercial and industrial loans grew 5 per cent to \$10.96bn, while foreign government loans fell 5 per cent to \$3.55bn.
The group added \$185m to

or 4.39 per cent of loans outstanding. A year earlier it added \$110m for a total of \$3.62bn, or 5.25 per cent. Most of the provision related to credit losses from the sale or swaps of assets of countries

loan loss reserves in the quarter, making a total of \$3.42bn,

restructuring their debts. Net interest income on a taxable-equivalent basis increased only marginally to \$993m from \$987m. Excluding the 1989 Brazilian payment, interest income rose \$52m. The net interest margin slipped to 4.33 percentage points from 4.60 points. Excluding Brazil, the margin was down only 5 basis

Non-interest income rose \$85m to \$521m, due mainly to growth in fees and commis-

at quarter-end from \$96.5hm a year earlier. Shareholder equity equalled 5.09 per cent of assets, up from 4.96 per cent a year earlier. The average rate of return on earning assets was 1.22 per cent, against 1.29 per cent a year earlier.

Recovery at Reebok continues

By Alice Rawsthorn

REEBOK, the US sportswear company, continued its recov-ery by increasing pre-tax \$83.93m in the first quarter thanks to the success of its new basketball shoe and the growth of overseas markets. The group lifted earnings per share to 46 cents from 48 cents.

Mr Paul Fireman, chairman, said sales and income had reached record levels. Reebok, which is 32 per cent owned by Pentland Industries of the UK, has been battling against Nike, another US company, for dominance of the

intensely competitive interna-tional sports shoe market. The success of the Pump, a basketball shoe with an inflatable lining, has helped it to gain ground in the US. The shoe, which sells for \$179, was Reebok has since increased

production. Most of Reebok's growth in the quarter came from over-seas markets. Group turnover rose by 13 per cent to \$554.4m from \$488.49m, but sales outside the US more than doubled to \$116m, against \$57m.

Charge slows Digital Equipment

had earlier indicated it faced the possibility of its first-ever quarterly loss, yesterday sur-prised investors with higher than expected operating earn-ings for its third fiscal quarter. However, the big US computer manufacturer took a \$150m charge against earnings to cover the costs of a planned reduction in its workforce,

ing charge. Net income after the charge was \$24.9m or 20 cents per share, compared with \$256.4m or \$2.05 a year ago.

president, finance, said the \$150m charge "reflects costs for employee separations and redeployment. Further opportunities for cost savings are being investigated, and there may be additional restruc-

turing charges in the future." Digital said it had offered voluntary severance packages to 1,840 of 2,300 employees at its Puerto Rico plant and hoped to reduce employment there by 350 people. It had pre-viously offered the severance

Advance at Ciments Français

By George Graham

CIMENTS Français, the French cement and building materials group, made net profits of FFribn (\$178m) last year, up 27 per cent from 1988, on sales that rose by the same amount to FFr12.5bn. Mr Pierre Co

said the inclusion of newly acquired companies in Turkey, Spain and the US should boost sales to between FFr15bn and its of between FFrlbn and FFr1.2bn.

The group, which ranks sec-ond in the French cement

industry behind Lafarge Cop-pse, has been expanding rapidly over the last year with a series of acquisitions. It announced yesterday the pur-chase of US Cement, a pro-

The \$105m purchase last year of five cement works from the Turkish Government has been hampered by legal diffi-culties over the sale, but was reinforced recently by a sixth works bought from a private-

sector company.
In Spain Ciments Français

BOWATER INC, the US pulp

and paper group, suffered a 42.9 per cent fall in net income in the first quarter, mainly

because of sharply lower prof-its from its newsprint business. Group net income declined to \$22.2m from \$38.9m a year

earlier on sales 5.7 per cent

lower at \$338.3m. Earnings per

Bowater Inc held back

by newsprint business

has taken 65 per cent of Finan-clera y Miniera, the construction materials group, for a total investment of FFr2.4bn, while in Greece the group hopes to complete the acquisiducer in the Pittsburg tion of the Halyps cement

in Morocco the group has taken control of Ciments d'Agadir, and plans not only to increase its capacity from 750,000 tonnes a year to more than 1m tonnes but also to build a second works at Safi. further north on the Moroccan

tough trading conditions, with

price discounting widespread in the industry. Newsprint profits had came under pres-

sure last year after reaching a record level in 1988. However,

Bowater is hoping to push

through a price increase for

newsprint from June L.
Three other divisions also

saw falls in operating income.

Profits from coated paper fell 13.7 per cent to \$21.1m, pulp by

18.1 per cent to \$17.6m, and timber operations by 36.4 per cent to \$2.1m. Only computer

papers raised operating income, by 82.5 per cent to

the same period of last year The results included a 23-day contribution from Great North-

the US economy. The singgishindustrial and electronic sec tor, covering automotive, housing and other general

Several US businesses bucked the trend to post strong growth. They included telecommunications, imaging, memory and medical products. US operations also benefited from continued productivity

gains.
"We expect another year of higher sales and earnings," said Mr Allen Jacobson, chair-

• 3M said recent economic events in Brazil, including the imposition of monetary controis, could reduce growth in second-quarter earnings by about 4 cents a share, Reuter

ern Nekoosa, while the debt involved in the acquisition pro-duced a jump in interest reports.

The company said the events in Brazil were expected to have a relatively small effect on results, with most of the negative impact on the busi-ness being felt in the second

DIGITAL Equipment, which

sharply lowering its net earn-Income for the quarter was \$174.9m before the restructur-

The company reported total revenues of \$3.26bn, up 4 per cent from the \$3.13bn for the comparable period a year ago.

Mr James M. Osterhoff, vice

package to 2,000 US employees and 700 had accepted. For the nine-month period

net income was \$331.1m compared with \$759.4m, and earnings per share were \$2.65 against \$5.94. Revenues were \$9.58bn from \$9.25bn.

Overseas demand bolsters 3M

in Europe

lift Apple

by 134%

senior management changes

Revenues rose by 8 per cent for the quarter from \$1.25bn to \$1.35bn, lifted by international

sales which increased 27 per cent to \$633m. US sales, how-

cent to \$633m. US sales, however, dropped 8 per cent to \$713.5m, the company said.

"We are experiencing marked improvements in our gross margins as a result of lower component costs and strong sales of the computers we introduced a year ago," said Mr John Sculley, Apple chairman and chief executive.

"During the quarter, the

"Buring the quarter, the percentage of revenues coming from outside the US reached an all-time high," he said. "As we must the second bull of fiscal 1990, we are optimistic regarding the level of international demand while we

tional demand, while we remain cautious regarding growth in the US."

1990, net income was \$258.7m, or \$2 per share, up from \$196.8m or \$1.54 on revenues of \$2.84bn, up 7 per cent from \$2.65bn in the same period a

For the first half of fiscal

ing expectations.

By Rodarick Oram

MINNESOTA Mining and Manufacturing, the diversified US group, reported marginally improved first-quarter profits with strong foreign demand for its wide range of industrial products offsetting flat demand in the US.

Net profits rose 5.3 per cent to \$335m, or \$1.51 a share, from \$318m, or \$1.43 a year earlier on revenues up by 4.3 per cent to \$3.16bn from \$3.02bn.

The results were slightly weaker than Wall Street had expected. international unit volume

International unit volume rose by 12 per cent from a year earlier, the ninth consecutive quarter of double-digit growth of foreign sales, which accounted for 49 per cent of the group total in the quarter. In contrast, domestic unit volume grew only 1 per cent because of the slowdown in the US economy. The sluggish-

THE DREYFUS INTERCONTINENTAL INVESTMENT FUND N.V. NOTICE OF ANNUAL GENERAL MEETING

NOTICE IS HEREBY GIVEN that the Annual General Meeting of The Dreyfus Intercontinental Investment Fund N.V. ("the Fund") has been called by the Management and will take place at the registered office of the Fund, De Ruyterkade 62, Willemstad, Curaçao, Netherlands Antilles on May 10, 1990 at 11.00 o'clock in the forenoon. Stockholders of record at the close of business on Tuesday, March 20, 1990 will be entitled to receive notice of and to vote at the meeting.

Consideration of the declaration of a dividend of \$0.02 per share to Stockholders of record on May 25, 1990.

Approval of Financial Statements for the fiscal year ended The transaction of such other business as may properly

come before the meeting, or any adjournment or adjournments thereof. The toregoing items may be approved by a majority of the shares cast on each item. The Annual Report of the Fund containing the Financial Statements for the fiscal year ended August 31, 1989 has already been mailed to Stockholders, and copies may be obtained upon request from the principal office of The Dreyfus Intercontinental Investment Fund N.V., Post Office

the Paying Agents listed below without cost to the Stockholder Holders of bearer shares will be admitted to the meeting upon presentation of their Certificates or presentation of a voucher which may be obtained from any of the Paying Agents.

Box N3712, Nassau, N.P., Bahama Islands or from the offices of

Holders of bearer shares may vote by proxy by mailing a form of proxy and a voucher obtained from one of the Paying Agents to Mr. Neville Pearson, The Dreyfus Intercontinental Investment Fund N.V., c/o NatWest International Trust Corporation (Bahamas) Limited, Mutual Funds Department, P.O. Box N7785, Nassau, N.P., Bahama Islands. The form of proxy and voucher must be received by Mr. Pearson by May 9, 1990 to be voted at the

The Custodians of the Fund are The Bank of New York, 90 Washington Street, New York, New York, U.S.A. and NatWest International Trust Corporation (Bahamas) Limited. All inquiries should be directed to NatWest International Trust Corporation (Bahamas) Limited, Mutual Funds Department, P.O. Box N7785, Nassau, N.P., Bahama Islands. Inquines may also be directed to Dreyfus GmbH, Maximilianstrasse 24, D-8000, Munich 22, West Germany. Tel. 089/220702. Telex 5/29392, Telefax 089/

Bowling Green Company Limited Managing Director

PAYING AGENTS FOR THE DREYFUS INTERCONTINENTAL INVESTMENT FUND N.V.

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6 Frankfurt/Main 1 West Germany Banque Internationale à NatWest International Trust

Corporation (Bahamas) Limited Luxembourg 2. Boulevard Royal Mutual Funds Department Luxembourg-Ville Nassau, N.P., Bahama Islands Luxembourg 2205

Simmons turns to court over Lockheed fight

MR Harold Simmons, the Dallas investor, has filed a suit in federal court to overturn results of last month's proxy fight in which he lost his bid to gain control of Lockheed, the US serospace group, Reuter

reports.
The suit, filed on behalf of NL Industries of which Mr Simmons is chairman, alleges Lockheed's board illegally engineered extra proxy votes through its employee stock ownership plan to win the

Mr Simmons said in the suit: "This action seeks to restore integrity to the recent election of Lockheed's board of direc-tors and to ensure integrity in

shareholdings. He owns about 19 per cent of Lockheed. Lockheed's annual meeting reconvened on Monday at

which time Mr Daniel Tellep,

chairman, said the incumbent board had been re-elected and had received between 57.6 and

60.7 per cent of the vote. Nominees of NL Industries had

received 36.9 per cent.

future elections."
In a recent filing with the SEC Mr Simmons said he might file the suit and that he was seeking representation on the board proportionate to his

share fell to 59 cents from \$1.04, a drop of 43.3 per Operating income from Bow-ater's newsprint division plum-meted by 89.7 per cent to \$3m from \$29.3m Other North American news-

print makers are also seeing Georgia-Pacific suffers setback

GEORGIA-PACIFIC, which took over Great Northern Nekoosa last month to create the biggest US paper group, announced a 34 per cent drop in first-quarter net income, writes Martin Dickson. It blamed the decline on

Net income was \$101m on sales of \$2.7bn. against income of \$154m on sales of \$2.4bn in

quarter last year, while profits

jumped 173 per cent to \$15.4m or 33 cents per

Conner, a Wall Street favour-

ite. went public in April 1988

with a share price of \$8. On

Wednesday the stock traded at

a record high of \$20%, closing

at \$20 before news of the legal

lower paper and pulp prices and a strike at one of its

expenses from \$66m to \$97m. Earning per share were \$1.18. against \$1.65 a year ear-lier. The building products business saw operating profits rise from \$39m to \$115m, but pulp and paper slipped from \$247m to \$182m.

High-flying Conner Peripherals sues rival

CONNER Peripherals, one of

the fastest growing companies in the computer industry, may be forced to slow its growth rate because of a shortage of essential components for its computer disk drive products. Late on Wednesday Conner confirmed it had filed a suit against rival Seagate Technol-

shut off its primary supply of a critical component when it acquired the component manufacturer last October. Four-year-old Conner has been widely expected to claim the record as the fastest growing manufacturing company in US history if, as several analysts have forecast, its 1990 sales top \$1bn. Conner reported first-quarter

sales of \$235.1m this week, up

ogy, charging that Seagate

The component shortage has forced Conner to place some of its newest products on alloca-tion. Mr Bill Schroeder, vice chairman, said: "This will have an impact on our customers and on our ability to capture incremental [business] oppor-

He emphasised, however, that Conner did not expect its financial performance to be 80 per cent on the same and pointed out that the com-

pany had not advised analysts to revise their earnings esti-

The company's largest customer is Compaq Computer, which owns more than 30 per cent of Conner's stock. Conner is also a leading supplier of disk drives to Japanese manufacturers of laptop personal

Conner alleges in its suit that after Seagate acquired Impiris Technology, a disk drive subsidiary of Control Data, last October it refused to honour an Impiris contract to supply Conner with "thin film heads," essential components of computer disk drives.

Seagate and Conner are bitter rivals in the market for personal computer disk drives. Mr Finnis Conner, who founded Conner Peripherals in 1986.

was also a founder of Seagate

Mr Schroeder said Conner had tried but failed to resolve the supply contract issue through discussions. Its suit, which seeks unspecified damages, alleges unfair competi-tion, breach of contract, fraud and interference with contractual relationship.

Conner is attempting to find new sources of thin film heads and is redesigning some prod-ucts to use an alternative type of head component. "We expect the allocation problem to be resolved in the third quarter of 1990," Mr Schroeder said.

The component supply problem will not have any impact on Conner's recently announced plans to establish a manufacturing operation in

Strong sales Leading US defence contractors surge in opening quarter

GENERAL Dynamics and Northrop, two leading US defence contractors, have reported higher first-quarter earnings, with special gains influencing the results as profits on military work remain APPLE COMPUTER reported a dramatic leap in earnings for its second fiscal quarter, boosted by strong European sales and lower component Ending a quarter clouded by

under pressure.
General Dynamics turned innet earnings of \$123.7m or \$2.97 a share, against \$75.4m or \$1.81 and cost-cutting measures, including over 400 layoffs at its California headquarters, Apple surprised analysts with its strong financial perfora year earlier. Revenues were marginally higher at \$2.49bn, compared with \$2.36bn.
The latest profit included, though, a gain of \$61.5m or \$1.48 from the settlement of a

mance.

The personal computer manufacturer reported a 134 per cent rise in second-quarter earnings. Net income for the quarter was \$131.8m, compared with \$56.4m in the same period last year. Earnings per share rose to \$1.04 from 44 cents per share, far outreaching expectations. suit brought against American Telephone & Telegraph and Bell relating to a telecommunications subsidiary General Dynamics sold in 1982. Operating profits from government aerospace contracts fell to \$88.1m from \$106.1m on flat sales of \$1.48bn against \$1.46bn, Profits from subma-

rines and land systems were also down, reflecting mainly lower profit margins on Tri-dent submarines.

General aviation was the one

bright spot, reporting operat-

ing profits of \$16.5m on sales of \$157.5m, against \$4.3m on \$115.6m. The increase came silf.6m. The intrease came mainly from an enthusiastic market response to the compa-ny's Cessna Citation V execu-tive jet. Sixteen were delivered in the first quarter, almost half the total for all of last year. Earnings were also hurt by a

38 per cent jump in interest expense to \$19.4m, resulting from higher borrowings needed for accelerated tax payments required by accounting

changes.
Northrop saw the first-quarter net jump to \$96m or \$2.04 a share, from \$9.7m or 21 cents a year earlier on revenues which were flat at \$1.28bm. The order backlog was 24 per cent higher

at \$5.7bp. But the result included a \$67.1m gain from the sale of Northrop's headquarters com-plex. Net before the gain was \$28.9m, however, with the result affected by factors such as a \$10.7m pension fund con-tribution to operating income against a debit of \$3.2m a year

Restructuring boosts American General

By Roderick Oram

AMERICAN General, the US AMERICAN General, the US insurer fighting off a proxy challenge from rival Torchmark, has reported higher first-quarter profits.

The improved estudies were the hard-won rewards of a more complex and difficulting.

very complex and difficult restructuring programme," Mr Harold Hook, chairman, said. Net profits for period rose to \$107.1m or 90 cents a share, from \$97.2m or 77 cents a year earlier. Revenues grew to \$1.04bn from \$1.01bn. Assets increased 6 per cent to \$32.6bn. Operating earnings from American General's three business segments increased only marginally, however, to \$130.1m from \$126.5m. The

improvement in net income

interest expense to \$28m from Torchmark continues to

press for the election of its five nominees for the six seats of the 15-strong board to be decided at American General's May 2 annual meeting. It is also seeking shareholder support for a resolution calling on the board to consider takeness. the board to consider takeover Torchmark withdrew a \$6.4bn offer for American Gen-

eral last month but said it-would revive the bid if share-holders backed its proxy initia-Despite continuing skirmishing in the courts between the two parties, there are currently

no bars on Torchmark solicit-

came largely from other fac-tors, such as a reduction in ing proxies or making its nomi-nations. Higher fuel costs push AMR into \$19m deficit

By Martin Dickson in New York

AMR, the parent company of American Afrikas, the largest US carrier, reported a net lose of \$19.3m in the first quarter,

laying the blams mainly on higher fuel costs. The loss, on revenues up 9.7 per cent at \$2.7bn, compared with net income of \$101m in last year's corresponding period. Mr Robert Crandall, chairman, said the results "canonly be called unsatisfactory."
The loss per share was 31 cents against earnings of \$1.60

a year ago.

Mr Crandall noted that while
the first quarter was always

week this was the first loss AMR had reported in the pest

nine quarters.

While the higher cost of fuel was a prime reason for the decline, the company said labour costs and other expenses also rose. This meant that while unit costs climbed 8.7 per cent, unit revenues were flat because the company could not raise prices.

Operating expenses were up 17.5 per cent at \$2.7bn while the yield - the average amount of revenue earned per passenger mile — was 12.73 cents, the same as in 1989.

NOTICE

to the holders of the outstanding £75,000,000 10% per cent. Guaranteed Bonds 1996 of

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BRITISH & COMMONWEALTH CAPITAL PLC

Dated 20th April, 1990

INTERNATIONAL COMPANIES AND FINANCE

in spite of

tough liner

competition

A.P. MOLLER, the Danish shipping and oil and gas con-cern, increased pre-tax profits from DKr1.33bn (\$208.6m) to DKr2.11bn and net profits

from DKr1.02bn to DKr1.62bn last year.

An increase from 33 to 38

per cent in the dividend to a total of DKr139m was pro-

posed.

Pre-tax profits in the tanker

and liner shipping partnership were up from DKr801m to DKr1.23bn, but this included

DKr347m from the sale of ships, while in 1988 the pro-ceeds from ship sales were booked in the balance sheet, which leaves the operating

molter referred to tough Moller referred to tough competition in liner shipping, which had prevented signifi-cant increases in rates despite

high capacity utilisation and gains in market shares for the

group.

Profits in the oil and gas

partnership were up from DKr656m to DKr892m after

By Hilary Barnes

in Copenhagen

Jacobs 'disappointed' by Brach loss | Moller rises |

By Barbara Durr in Chicago

said yesterday that he took personal responsibility for the losses at E.J. Brach, the US confectionery subsidiary, whose \$50m loss last year was the principal factor in the 10.4 per cent fall in the Swiss group's 1989 consolidated net

Mr Jacobs called the experience with Brach one of my biggest disappointments" but Suchard says it is already beginning to stem the losses at Brach, for which the Swiss

JACOBS SUCHARD'S results for 1989 offered

shareholders a sweet and sour menu, Mr Johann Widmer, financial director, said yester-

day, writes William Dullforce.

They could take comfort from the geographi-

They could take comfort from the geographical expansion, introduction of new products and modernising of the production apparatus in Europe and from the exploitation of new markets in the Far East and Eastern Europe.

But spending on these strategies together with the operational problems in E.J. Brach, the US subsidiary, had produced a decline, which had been expressed in the unsatisfactory performance of Jacobs Suchard's share prices.

Nevertheless, the more advantageous cost structures and improved market nositions

structures and improved market positions

brought about by the investments would have an increasingly favourable effect on both sales

volume and financial results, Mr Widmer said.

By Peter Bruce in Madrid

MR ALFONSO Escamez, the

pugnacious chairman of Banco Central, one of Spain's large commercial banks, yesterday publicly expressed his hrita-

tion over the sale by a rival bank, Banesto, of its 11 per cent stake in Azucarera Espan-

ola, Spain's third largest sugar

Banesto sold its stake in Azucarera to ED&F Man, one

of the world's largest sugar brokers, earlier this week for

around Pta4.4bn (\$41.5m), hav-

ing decided to retire from the

sector and concentrate on

10 per cent of the Spanish

Man, which also owns about

other industries.

renera

MR KLAUS JACOBS, confectionery and coffee group chairman of Jacobs Suchard, paid 3730m in 1987. Suchard's group net earn-

ings would return to the usual growth rate - 10 per cent a year on average - in 1990 after the drop to \$375m last year, Mr Jacobs said in Zurich. It was the first time that the Swiss chocolate and coffee group had failed to post a profit increase since its creation by merger in

Brach's competitors, such as M&M/Mars and Hershey Foods, say managerial mistakes were its main problem. It sacked top

"We will fight for control of Azucarera Espanola," Mr Esca-

Azucarera Espanola," Mr Esca-mez told a Spanish newspaper yesterday. Although Banco Central officials said they had not expected to buy the Banesto stake because it was too expensive, the newspaper quoted Mr Escamez saying "we were surprised by the sale as we had clearly committed our-selves to the sector and the commany."

Mr Escamez' displeasure is easy to understand. The Span-ish sugar industry, protected like most of the European Com-

management and reduced its product lines, prompting retailers to decrease shelf space for

The Swiss group's annual report released yesterday lends credence to this argument. It attributed Brach's sales decline to too rigorous slimming of the product range. Introduction of sales methods used success-fully in Europe had not taken into account the peculiarities of the US market.

Changes introduced - the marketing re-organisation, rationalisation of production

Jacobs Suchard plans to maintain its dividend at SFr215 (\$144.9) per bearer share and SFr43 per registered share, incorporating the 10 per cent bonus paid last year.

The 4.5 per cent increase to SFr6.7bm (\$4.47bm) in group turnover was due mainly to a 12.9 per cent climb in chocolate sales to SF12.7bm. Coffee, the other main business, man-

serize the conee, the other main business, managed only a 1 per cent increase in sales. Confectionery fell back by 14 per cent and the Van Houten division, which specialises in trading, financing and processing, increased its turnover by 6.3 per cent to SFr735m. Geographically, the European Community countries still accounted for 75 per cent of turnover; the new

accounted for 75 per cent of turnover; the new operations in the Far East are still very small. Total assets rose by 5.8 per cent to SFr4.8bn, with shareholders' equity increasing by 6.3 per

about 13 per cent of Azucarera

and wants to increase that. Sugar is a comfortable, prof-itable business in Spain. The

three companies that dominate the Spanish industry, Ebro, industries Agricolas and Azu-carera, with sales between

them last year of more than Ptall5bn, have at least until

1995 to streamline their pro-

ductive and marketing pro-

Spain to produce slightly more

sugar, Im tonnes a year, than it consumes and intervention prices guaranteed by the Com-munity for Spanish sugar are higher than the EC average.

The EC quota regime allows

lowed a 14 per cent decline in sales; in 1986 it earned a pre-tax profit of \$75.6m. But results for the first quarter showed a \$10m improvement in Brach's Sweet and sour taste of results

operational earnings, Mr Jacobs said.

Jacobs said.

Meanwhile, a separate row has developed in the US over Suchard's attempt to win special Foreign Trade Zone status for Brach. Competitors charge the Swiss-owned group with trying to gain an unfair competitive advantage.

Jacobs Suchard USA has asked for FTZ status, in order to buy sugar at the lower

units and installation of new

computer systems - had out-stripped the capacities of the

management and led to inter-nal conflicts, the report stated. Mr Ronald Habijanac,

Suchard USA's second president in little over a year, was replaced last week. Mr Robert

Jaunich, a senior member of

the group executive board in Zurich responsible for Amer-

ica. Asia and the Pacific, has

taken personal control.

Brach's operating loss fol-

to buy sugar at the lower world price instead of at the US support price. It estimates that this would save \$20m a year on its annual 100,000 tons

of sugar purchases. Jacobs Suchard says it is try ing to preserve more than 3,400 jobs in Chicago's run-down west side. A ruling is due in the next few weeks.

Investment Office (KIO) has initiated a merger with industrias Agricolas. The process is quite advanced and Banco San-

tander, banker to the Kuwaitis

in Spain, has been trading sugar stocks heavily since late

last year in order to ensure a clean, trouble-free merger for its clients.

would leave Azucarera at a considerable competitive disad-vantage in a liberalised mar-

The Spanish refiners tradi-tionally hold abundant hidden

assets, mainly in land, and

Azucarera is no exception.

The Ebro-Agricolas merger

financial items and deprecia-tion, and from DKr51m to DKr97m after tax. The turnover figures for the Escamez angered by sugar sell-off

associated companies were published for the first time, revealing turnover in the ship percenting turnover in the sin-percent percent of DKr17.94bn last year and in the oil and gas partnership DKr2.5bn.

BASF plans bonus pay-out

BASF will raise its regular 1889 dividend by 8 per cent to DM13 (87.78) per share from DM12, and will pay an additional bonus of DM1 to celebrate its 125th anniversary, it said yesterday, reports AP-DJ. The dividend announcement

by the West German chemical group had been expected by analysts after BASF last month reported an 18 per cent jump in 1989 group pre-tax earnings to a record DM4.38bn from DM3.73bn in 1988. Yesterday BASF said group

net income surged 42 per cent to DM2bn in 1989 from DM1.4bn a year earlier.

Administrators seek maximum Atlantic assets

and Terry Dodsworth in London

THE ADMINISTRATORS put into Atlantic Computers, British & Commonwealth Holdings' troubled computer leas-ing subsidiary, have been given the task of realising as much as possible from Atlan-

tic's assets. Price Waterhouse confirmed yesterday that it had been appointed under the 1986 Insolvency Act for the sole purpose of achieving a more advanta-geous realisation of Atlantic's assets than would be effected

on a winding up.

The act provides for other purposes - including achiever. ing the survival of the company as a going concern - but these have not been used in this case.

The administrators say they are "reviewing the financial position of all operating subsid-iaries," and have received "approaches from potential buyers interested in various parts of the operations," Yes-terday, 180 UK redundancies were announced.

Meanwhile, further disagreement emerged as to precisely when the full extent of Atlantic's difficulties became apparent, following a statement by Mr David McCormick, the chief executive of the leasing group whom B&C says was suspended on March 28.

"The full magnitude of Atlantic's problems was reported to certain board members of B&C more than a year ago following a review of the potential liabilities which I instigated," according to Mr McCormick's statement.

McCormick's statement.

B&C continues to maintain that the "full enormity" of Atlantic's position only came to light in the past two weeks. The bulk of yesterday's redundancies came at Atlantic

Computer Systems, the principal leasing subsidiary. Staff reductions were necessary said the administrators because ACS "does not have credit lines available to fund purchases of equipment."

Singer & Friedlander, the

merchant bank, is interested in buying in the 10.4 per cent of its shares held by B&C "at the right price." The bank said that it has been talking actively with B&C over the past six months. Singer & Friedlander's shares rose 1p to 61p yesterday, valuing B&C's stake at more than £14m.

Bongrain climbs 13.5% and predicts further rise

By William Dawkins in Paris

BONGRAIN, the dairy, pork products and restaurant group which is France's largest specialist cheese producer, yester-day unveiled a 13.5 per cent rise in net annual profits on a

29 per cent increase in sales. The group, built up by Mr Jean-Noël Bongrain over the past 40 years from the small dairy owned by his family, and which now numbers Caprice des Dieux and St-Moret among its top cheese brands, is pre-dicting another rise in profits and sales for the current year.

Turnover rose to FFrs.48bn (\$1.5bn) from FFr6.58bn last year, although the underlying rate of year-on-year growth fell from 29 per cent to 8.8 per cent, adjusting for exchange rate changes and the impact of eight cheese and dairy acquisitions in Europe, the US and Brazil.

Net profits rose from FFr344.1m to FFr390.6m. About 45 per cent of sales came from France, with 25 per cent in the rest of Europe, 26 per cent in the US and the balance in Australia and Brazil.

The takeovers added about FFr2bn to a full year's seles. They included Altadena, a FFr800m turnover US dairy group, which contributed a oss; Aiuruoca a leading Brazilian cheese maker; and Millway Foods, a British producer of

Fiat Auto forecasts promising earnings

By Haig Simonian

EARNINGS for 1989 at Fiat Auto, the automobile producer which accounts for about half the turnover of Italy's Fiat group, will be "quite encourag-ing," Mr Luigi Francione, the joint general manager of Fiat

Auto, said.

Profits will be "at least in line with results of the previous year, and perhaps a little better." he added. Prospects for the current year already appear promising based on first-quarter figures, with output running at full capacity.

Boosted by the introduction of the new Tempra mediumsized saloon, which sold about 20,000 units between its introduction in late February and the end of March, Fiat sales in Italy rose 5 per cent in the first three months of this year.

Fiat appears poised to raise its current 18 per cent stake in ZCZ, the Yugoslavian car manufacturer which sells under the Yugo marque.

Although cautious about the possibility of taking a majority stake, Mr Paolo Cantarella, joint general manager of Fiat Auto, admitted: "Further developments of the control of the capture developments and co-operation

developments and co-operation with ZCZ are being analysed although a decision depended on many factors.

Among the possibilities are that Fiat will raise its ZCZ stake to 50 per cent, but not necessarily take an absolute majority, analysts engagest necessarily take an absolute majority, analysts suggest. But, the two manufacturers are already tightening their links, with an Innocentibadged version of Yugo's Koral saloon going on sale in Italy next month.

UPM merger plans deferred

FINLAND'S United Paper Mills (UPM) said plans to merge the company with Rauma-Repola, the Finnish forest products and engineering group, had been deferred, writes Our Financial Staff.

UPM said a merger motion at a UPM shareholders' meet-ing was withdrawn after 30 shareholders representing 13.4m of its 31m shares became unhappy with the

like most of its European Com-munity counterparts by a strict production quota regime, is undergoing profound changes in ownership in which it has been assumed until now that Banco Central would play a large role. Central already has With one foot already in a comfortable, protected, industry. tobacco trader, Tabacos de Fili-pina, said on Wednesday that But, with an eye on the even-tual liberalisation of the mar-Mr Escamez is unlikely to be it had bought the sugar stake ket, Ebro, now ultimately con-trolled by the Kuwaiti put off sugar by Banesto's stake going to London. for "strategic" reasons.

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CREDIT LYONNAIS GROUP IN 1989 : **NET PROFITS:** +60% PROFITS. PERFORMANGE

The Board of Directors of Credit Lyomnaus, led by its Chairman, Jean-Yves HABERER, presented the financial statements for 1969 at its meeting on 12 April 1990 Three important acquisitions were consolidated in 1969 Credito Bergamasco and Credit Lyonna's Belgium (al 1 July 1989) and Woodchester

Substantial growth in assets and group activity The Group's growth strategy and the vitality of its business activity are

reflected in the increase in consolidated assets, which totaled FRF 1,220 billion at year-end 1989, up 12.5% from 1988 The lending activity continued to expand cutstanding gross loans to

customers totaled FRF 575 billion, up 13.9 % Leasing activity was particularly dynamic equipment leasing increased 44.4 % and real estate leasing rose 27.9% from 1988. Medium- and long-term commercial loans continued to grow (up 11.9 %), as did housing loans (up 12.6 %). Credit Lyonnais consolidated its first place in financing for construction, with real

estate loan production of FRF 23 billion, up 2.7% from 1988 Customer deposits, including negotiable CDs advanced 12.8% to FRF 464 billion at 31 December 1988

On the asset side of the balance sheet, the proportion of operations denominated in foreign currencies (52 %) was slightly greater than that of operations denominated in French francs (46 %)

Capital market activity was very strong Credit Lyonnae reconfirmed its eadership position in France for the management of bond issues. It ranked first (ex aequo) in the Eurofranc market, second in the ECU market, and fourth in Europe in the Europoind manket (all currencies). Check Lyonnais led seven listings on the Pans Bourse and co-fed nine others. The Group managed assets totaling FRF 262 belien (up 21%).

Financial engineering operations continued to expand, particularly with the financing of 59 airplanes and high-speed train sets in France (12 for the TGV Atlantique) and in Spain

estment banking in 1989 reflected the increase in merger and acquisition and LMBO activity in France and abroad (99 operations, up from 46 in 1988). Enuity investments also advanced : following the 266 investments made in 1989. the portfolio of industrial, commercial, and real estate shareholdings (excluding subsidianes) is estimated at FRF 18 billion (up 38 %).

For the Credit Lyonnais Group as a whole, banking and other income totaled

FRF 33,594 million, up 11.346 Operating expenses and depreciation totaled FRF 23,734 milion, up 8 1% from 1988 (only 5.7% on a consistent basis of scope erating income before provisions totaled FRF 9,860 million compared with

FRF 8,225 million in 1988, representing an increase of 20 %.

Nonrecurring income totaled FRF 227 million in 1969, taking into account the impact in 1989 of fiscal integration of previous years. Nonrecurring income was so, times greater in 1988 (FRF 1,398 million) and was set aside entirely

Despite the fact that such a large appropriation of that nature was not made in 1989, the net appropriation to operating provisions did in fact total

FRF 6.280 milkon, practically the same very high level achieved in 1988 (FRF 6,358 million). Of that amount, FRF 3,462 million was devoted to country-risk coverage, raising coverage to an average of 56% of exposure in 69 heavily

Consolidated net profit of the Credit Lyonnais Group totaled FRF 3,447 million in 1989 compared with FRF 2,158 million in 1988, representing an increase of 60 % Excluding minority interests, the Group's share totaled FRF 3.130 million, up 52 %

French and foreign branches and subsidiaries contributed almost equally e the FRF 1,289 million increase in consolidated net profit. In France, the branch network, leasing affiliates, and Epargne Collective (a mutual fund management company) were responsible for that growth, as were Union des Assurances Federales group, Sligos, and stock brokerage firm Cholet-Dupont.

Outside France, significant increases were achieved by big subsidiaries, branches, and leasing companies. London-based Credit Lyonnais Capital Markets. substantially narrowed its negative contribution to earnings (to FRF 217 million in 1989 from FRF 603 million in 1988), thanks to vigorous restructuring enerts Recently acquired subadianes also made a significant positive contribution.

Strengthening of equity capital

Following an appropriation of FRF 2 706 million to reserves, and taking into account the new share offering subscribed by Casse des Dépôts et Consigna-tions, equity capital totaled FRF 27.170 million, compared with FRF 22.013 million. in 1968, representing a 23.4% increase. Equity capital and equity-capital equivalent totaled FRF 38.758 million. (up 14.7%) With the consolidation of Altus. Finance in February 1990, equity capital and equity-capital equivalent now exceeds FRF 50 billion

Estimated net asset value of the Group, excluding the value of the different businesses of the Group, totaled FRF 39.9 billion, up 32% from 1986. Deduction of minority interests in subsidiaries leaves an estimated net asset value of FRF 37 billion, (up 27.4%). It represented FRF 1,330 per share at 31 December 1989, compared with FRF 1,113 a year earlier (up 19.5 %)

Parent company earnings have steadily become less significant due to the fact that most new specialized activities or strategic advances are locused on ad hoc subsidiaries. Devertheless, parent company carnings still serve as the bass for the dividend. Its net profit totaled FRF 1.118 million, up 64.5% from

At the Annual General Meeting of Stockholders, the Board of Directors mends to propose the distribution of a dividend per ordinary and nonvoling share of FRF 34 50 (including tax credin), up 21% from the previous year. At an average market price of FRF 690, this dividend on Crédit Lyannais nonvoting shares represents a yield of 5 %

in accordance with the conditions stipulated in the offering agreement. the remuneration of perpetual participating subordinated debentures, to tall place in October 1990, will be equal to 107,7% of the average bond yield (TMO) for the period I September 1989 to 31 August 1990

New agreements conduded with labor representatives in 1989 give the staff of Credit Lyonnais the possibility of benefiting fully from growth in earnings Payments for incentives and prolit-sharing rose to FRF 314 million in 1989. up 128% from FRF 138 million a year earlier



Notice of Redemption To the Holders of

Whitman Finance Corporation N.V. (formerly IC Industries Finance Corporation N.V.)

Sinking Fund Zero Coupon Bonds Due 1994

NOTICE IS HEREBY GIVEN, that pursuant to the provisions of Section 5 of the Fiscal and Paying Agency Agreement dated May 15, 1982 among IC Industries Finance Corporation N.V. (now Whitman Finance Corporation N.V.) (the "Company"), IC Industries, Inc. (now Whitman Corporation), as Guarantor, and The Chase Manhattan Bank, N.A., as Fiscal Agent and Paying Agent, \$58,258,000 aggregate principal amount of the Company's Sinking Fund Zero Coupon Bonds Due 1994 (the "Bonds") will be redeemed, through operation of the sinking fund, on May 15, 1990 (the "Redemption Date"), at a redemption price equal to 58.692% of the principal amount of the Bonds to be redeemed (the "Redemption Price").

OF THE BONDS TO BE REDEEMED, BONDS REPRESENTING AN AGGREGATE PRINCIPAL AMOUNT OF \$53,798,000 HAVE BEEN DETERMINED TO BE ON DEPOSIT IN THE EUROCLEAR SYSTEM OR IN CENTRALE DE LIVRAISON DE VALEURS MOBILIERES S.A. THE CERTIFICATE NUMBERS OF SUCH BONDS HAVE BEEN COMMUNICATED DIRECTLY TO THE OPERATORS OF SUCH CLEARING SYSTEMS. In addition to the Bonds held by the clearing systems mentioned in the precading paragraph, the following Bonds have also been selected by the Fiscal Agent for redemption on the Redemption Date:

On the Redemption Date, the Redemption Price will become due and payable upon each Bond to be redeemed in such coin or currency of the United States as at the time of payment is legal tender under United States laws for the payment of public and private debts. Amortization of original issue discount on the Bonds to be redeemed will cease to accrue on and after the Redemption Date.

Payment of the Redemption Price will be made on and after the Redemption Date upon presentation and surrender of the Bonds to be redeemed at the offices of any of the following paying agencies:

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It is required by the Internal Revenue Service that if you are a citizen of the United States you must provide your Social Security number when submitting Bonds for redemption.

WHITMAN FINANCE CORPORATION N.V.

By: The Chase Maphatian Bank, N.A. as Fiscal Agent and Paying Agent Dated: April 14, 1990



INTERNATIONAL COMPANIES AND FINANCE

Anglo American | Kanebo's struggle for prosperity results hit by industrial action

The 7 per cent drop in area

mined over the previous quar-ter was reflected in a 17 per

cent increase in costs per kilo-

gramme of gold produced. Pre-tax profit, at R146m (US\$33.5m), was down 33 per cent on the previous quarter's

Production at Western Deep Levels continued to suffer from

a fire that took place in Octo-ber. The area should be back at

full production in the third

quarter. Although costs were kept tight, a 5 per cent drop in the amount of gold produced was reflected in a drop in pre-tax profit to R97.4m from

At Elandsrand production was adversely affected by planned mill modifications and

a decline in grade. Pre-tax profit dropped dramatically to R32.1m from R52.1m on the

back of a 17 per cent decline in gold produced. But Mr Hewitt said that approximately 60,000

tonnes of higher grade ore were stockpiled during the quarter and this would be

brought to account by the end

of the year. The other Transvaal opera-

tion, Ergo, which recovers gold

and uranium from old mine

dumps lifted pre-tex profit to R29.8m from R22.3m despite trouble from unseasonal rains

Freegold, the world's largest gold mine, managed to lift prof-its 15 per cent over the previ-

ous quarter to R184,4m. This was achieved according to the policy outlined a year ago of

and power failures.

By Philip Gawith in Johannesburg

RESULTS FROM the six gold mines managed by Anglo American Corporation, the South African industrial and mining conglomerate, show that activities on a number of mines were hampered by industrial action and other production problems during the March quarter.

The industrial action echoes the experience of other mining groups and is expected to continue in the current quarter. Despite of its reputation as the most liberal of the mining houses, Anglo has suffered most from industrial unrest. Worst hit was Vaal Reefs,

the second largest of the group's mines, which had a poor quarter. A manager estimated that more than 26,000 shifts, effectively two to three days of production, were lost because of industrial action in

the last quarter.
According to Mr Lionel Hew-itt, general manager of the and uranium division, striking black workers had two scrining olack workers had two significant grievances: they alleged racial discrimination in the hoisting of workers to the surface and in acclimatisation

The group denies these allegations. In many instances matters have not been helped by the backlash from white miners who have refused to go

underground unless protected. Production was also ham-pered by a shortage of working ace and seismic activity, especially in the South Lease area. This aggravated the ability to open up sufficient ore reserve but efforts are being made to increase the reserves and management does not expect the problems to persist.

By Jim Bodgener in Ankara

BANKERS Trust, the large US

wholesale bank, and Turkpe-

trol, a leading Turkish distri-buter of refined petroleum products and petrol station

operator, yesterday received approval from the Ankars

State Planning Organisation to

set up the country's first venture capital company, Tur-

trust.
The venture will be be capi-

It is the latest in an increas-

ing trend of foreign investor

in PARIS: Brojensin HUGHES
Marie-Thirdes VIEVILLE

FT FRANCE

Alice Rawsthorn on the impact of the falling yen on textile groups

he fall - and further fall - of the yen on the foreign exchange marforeign exchange mar-kets may have caused chaos on the Tokyo Stock Exchange and consternation in Japan's Ministry of Finance, but for some Japanese companies it has

One of those companies is Kanebo. Throughout the 1980s Kanebo, in common with the other large Japanese textile and fibre groups, watched the apparently inexorable rise of the of yen with ill-disguised

At a time when other Japanese industries were benefiting from buoyant exports and booming domestic demand, the textile sector struggled against the parallel problems of dwindling exports and increasing imports. The chief cause of its problems was the strength of

Even the giants of the indus-try such as Kanebo, one of the oldest Japanese industrial com-panies and now the world's panies and now the world's biggest single textile group, were not spared. Kanebo began the 1980s in the red and has now, after a painful period of cost-cutting, steered itself back to stability. The challenge for Kanebo in the 1990s is to turn that stability into a longer term recovery. The fall of the yen could scarcely have been better timed.

Kanebo began in business as a small spinning mill — the Tokyo Cotton Trading Com-pany — in 1886 at the dawn of the Meiji period of Japanese industrialisation. The Kanebo of today, run from Osaka, is involved in every part of the textile production process from fibres, through spinning and weaving to sewing the finished

THE FIVE LARGEST INTERNATIONAL TEXTILE GROUPS IN 1983 Company/Rank Workforce 1. Kanebo 9.086 Costs Viyella US 3. Armstrong 5. Milliken "Estimate. Source: Textil-Wirtschaft.

garments. It is the world's most diversified textile group. being involved with all three synthetic fibres and the three main natural fibres too.

By the early 1980s Kanebo was in trouble. The Japanese textile companies, which origi-nally concentrated on commodmarket, had suffered severely in the oil price crises of the 1970s when raw material costs increased and the yen strengthened against other cur-

Their problems continued

and accelerated after the Plaza. Accord in 1985 when the yen rose even more rapidly on the foreign exchange markets. Tex-tile imports poured into Japan and the Japanese companies' exports declined dramatically, The index of textile production fell from 100 in 1980 to 93 in 1987, at a time when the index for all Japanese manufacturing rose from 100 to 125. The level of textile import penetration doubled from 16 to 37 per cent between 1980 and 1988. The balance of trade in textiles swung

A company such as Kanebo was dealt a double blow. First, its textile interests were hit by increasing imports. Second, its fibre subsidiaries suffered from the problems of their customers in other Japanese compa-nies. Moreover, all its companies were exposed on the export front. Kanebo, along with other groups such as Toray and Tei-jin, was forced to resort to

exchange rates. rationalisation. Two years ago it withdrew from viscose proin the last year or so Kanebo duction and closed its Hofu plant. It also merged some of its textile companies and redirected others towards more up-market products. The rationalisation involved substantial job losses in fibres and textiles. Yet, in common with other Japanese compa-nies, Kanebo offers its employ-

expanding cosmetics and pharmaceutical companies. Kanebo has also reviewed its products. The strategy across all its activities has been to move up-market. In fibres, it is expanding in the fine denier products where the Japanese have a technical edge over their western competitors. One of the main areas of expansion in textiles is its liai-

French fashion house owned by the Agache industrial group. Kanebo is now increasing its licensing activities for

Dior in Japan.
It is also attempting to strengthen its presence in its export markets by localising production. Last year it opened a new spinning mill in Georgia in the US. The mill will offer a faster service to US customers and will also shelter Kanebo's business from the vagaries of

has operated in a less competitive climate. The yen is still strong but the steep increase in South Korean and Taiwanese labour costs means that those countries are no longer quite so competitive against the Japanese. Also domestic demand is so buoyant that, although imports are increas-ing, the domestic producers are

no longer suffering.

Kanebo has produced record results. It made net profits of Y2.9bn (\$18.3m) on sales of Y481.6bn in its last audited financial year to March 1989. Analysts anticipate further growth for the recently com-pleted year. But the profitability of its textile division is still dispiritingly low. Kanebo made just over half its sales from textiles and fibres last year. but little more than 10 per cent

of its profits.
The restructuring of its textile companies continues. But by the end of the 1990s, whatever the level of the yen. Kanebo, the world's largest textile group, expects most of its turnover, as well as its profsuch as cosmetics and electronics . . .not from textiles.

U.S. \$40,000,000



Sivensa Steel Investment Ltd.

Guaranteed Floating Rate Serial Notes due 1995

Guaranteed by

Siderúrgica Venezolana Sivensa S.A.I.C.A.—S.A.C.A. (incorporated in Venezuela with limited liability and domicited in Caracas, Venezuela)

93/% per annum Interest Rate 20th April 1990 Interest Period

22nd October 1990

22nd October 1990 Interest Amount per U.S. \$100,000 Note due

Credit Suisse First Boston Limited

U.S. \$5,010.42

FRONTRUNNER I Sicay

672, Rue de Neudorf L-2220 Findel

R.C. Luxembourg No. B. 31442

NOTICE OF MEETING

Shareholders of Frontrunner I, Sicav, are hereby invited to attend the annual general meeting which will be held on April 30, 1990 at 10.00 a.m. at the registered office, with the following

- Submission of the reports of the Board of Directors and of the Authorised Independent Auditor.
 Approval of the halance sheet and the profit and loss statement as at December 31 to halance sheet and the profit and loss statement as at
- 3. Discharge to the Directors and the Authorised Independent Auditor in respect of the carrying out of their duties during the fiscal year ended December 31, 1989.
- 4. Election of the Directors and the Authorised Independent Auditor.

The shareholders are advised that no quorum for the items of the agenda is required and that the decisions will be taken at the majority of the shares present or represented at the Meeting. Each share is entitled to one vote. A shareholder may act at any Meeting by proxy.

Shareholders wishing to attend the Meeting are requested to notify Frontrunner Management Company S.A. by April 25, 1990 at the latest By order of the Board of Directors.

Frontrumer Management Company S.A.

672, Rue de Neudorf L-2220 Findel Telephone: +352.43887265 Telefax: +352.439350

producing lower volumes, but higher grades. The mine also suffered from industrial action Pioneer to and from a tornado which hit Welkom in mid-March. sell stake in tin mining **Bankers Trust venture**

By Bruce Jacques In Sydney

interest in Turkey. It will inject equity into viable com-PIONEER International, the diversified Australian building products group, has continued to shore up its finances for the A\$290m (US\$223m) bid for panies or developments which are experiencing financing bot-tienecks and will concentrate initially on the tourism and lei-Brick and Pipe Industries, announced this week. Sir Tristan Antico, chairsure sectors. Once the compa-

(Nordic Investment Bank) 121/2% Notes 1983/90. NOK 100.000,000,...

In accordance with the Paying Agency Agreement, the following Notes are drawn for redemption.

Maturity 15th July 1990.

Last instalment

All outstanding Notes - 2,500 Notes each NOK 10,000 All Notes will become payable in NOK at the offices of: Bergen Bank A/S in Bergen, Citibank, N.A in London, Paris, Zurich, Frankfurt, Brussels and Citibank (Luxembourg) S.A. From and after 15th July 1990, interest on all the above-mentioned Notes will cease to accrue.

We remind you that the following Notes from earlier drawings have not yet been presented for payment:

1952

1984

1998

2070

2457 2459

2462

2465 2573

2585

2660

2550

BERGEN BANK A/S

2763

2785

2786

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3191

3193

3397

3576 3578

3672

3676

3678

3194

3592

nies have been brought to pro-itability, Turirust plans to sell its equity and reinvest the proman, said yesterday the com-pany had agreed to sell its 30 per cent stake in the separate-It hopes to begin operating in the summer, pending approval from the industry binister. ly-listed Pioneer Mineral Exploration (PME) to Malaysis Mining Corporation Berhad (MMC) for A\$41.7m. The cash purchase of Brick and Pipe, Anstralia's third biggest brick

The proposed PME sale is at 95 cents a share, 22 cents above yesterday's market price. It will need to be approved by that company's shareholders, who are being asked to waive MMC's normal obligation to bid the same price for the remainder of the

The sale is Pioneer's second hig mineral asset divestment recently. The other was the sale of the company's mineral sands operations.

Shell Oil to sell healthcare unit

ees jobs for life and redeployed its textile workers in its

KAMEBO RESULTS

(You)

(Ybn)

326.5 330.8

352.5 381.8

By Alan Archer in San Francisco

SHELL OIL, the US subsidiary of Royal Dutch/Shell, is to discontinue its involvement in healthcare following the announcement that it is seeking a buyer for its whollyowned Triton Biosciences operation, based in Alameda, Calif-

Founded in 1963 to develop and market pharmaceuticals and diagnostics for cancer, viral discoses and other serious ilmesses, Triton employs some

Aluminium price

fall hits Comalco

COMALCO, the aluminium

Australian resources group CRA, will report lower net

the A\$310.9m (US\$238.5m) for

1989 because of an anticipated fall in aluminium prices,

according to Mr John Ralph

chairman, Reuter reports from

He said Comalco's first-quarter profit was lower than the 1989 quarter as prices and sales

tonnages were both lower.
Aluminium prices had fallen

since November 1989. Growth

in world consumption might be slower than 1989, but was

expected to remain positive.

Melbourne.

3694

3756 3789

3792

3797

3800

3805

3820 3833 3834

3835

3838

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3878

3767

3769

3880

3882

3896

3901

3902

6726

6727

6729

producer 67 per cent owned

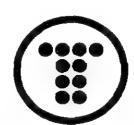
300 people and has a number of products in various stages of development. Mr Davis Richardson, presi-

dent of Shell Chemical and chairman of Triton, said: "Shell views Triton as a suc-cessful healthcare operation. However, after extensive review, Shell has decided Tri-ton is not sufficiently related to its principal petrochemical business to retain for the long

Morgan Stanley New York has been engaged as Shell's financial adviser for the pro-posed sale, which could interest a number of European and Japanese companies wanting to buy into the US pharmaceutical market.

One potential purchaser could be Berlin-based Schering, which is on the lookout for a small, highly-innovative biopharmaceutical company. Tri-ton might fit the bill.

This announcement appears as a matter of record only



Telefonica International Holding B.V.

a wholly owned subsidiary of

Telefónica de España S.A.

has acquired a controlling stake in

Compañia de Telefonos de Chile

for

US\$388.5 million

Barclays de Zoete Wedd S.A.

acted as advisor to Telefónica Internacional in this transaction

Hong Kong

London

Madrid

Sydney

April, 1990

BARCLAYS de ZOETE WEDD

Notice of Redemption to Holders of NORDISKA INVESTERINGSBANKEN

15th July 1989:

104

15th July 1988:

830

837

838

840

869

870

895

940 953 954

956

962 982

985

1008

1224

1116

1205

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21st CENTURY

MATERIALS AND TECHNOLOGY

T-O-D-A-Y

All the second of the second of

HIGHLIGHTS FROM THE 1989 REPORT & ACCOUNTS

UP 29% £48.3m before tax

Earnings UP 30% 26.0p per share

Dividend **UP 35%** 8.8p per share

Chairman Bob McGee comments:

"Our strong presence in Germany, France, the Netherlands, Belgium, Spain, Switzerland, Denmark and Italy, accounting for 60% of total sales, has been spread across a vast, but interrelated, range of products and processes...'

Copies of the Annual Report and Accounts can be obtained from BRITISH VITA PLC., MIDDLETON, MANCHESTER M24 2DB

INTERNATIONAL LEADERS IN POLYMER, FIBRE AND FABRIC MATERIALS AND TECHNOLOGY... SERVING THE FURNISHING, TRANSPORTATION, APPAREL, PACKAGING, LEISURE AND ENGINEERING INDUSTRIES.

NOTICE OF REPAYMENT To The Holders Of

Cityfed Capital Corp. U. S. \$200,000,000 ralized Floating Rate Notes Due 1991

NOTICE IS HEREBY GIVEN THAT, Bankers Trust Company, as trustee (the Trustee? under the Indenture dated as of May 3, 1883 (the "Indenture") of CityFed Capital Corp. (the "Company") hereby gives notice that an "Event of Default" as described and defined in Section 7.01 (1) and 7.01 (10), respectively, of the Indenture has occurred and is continuing. Accordingly, pursuant to Section 7.02 of the Indenture, the Trustee has declared the principal of all of the above-reference notes (the "Notes") and sil secrated interest thereon to the most recent date of an "Event of Default" occurrence, April 9, 1930, to be immediately due and payable.

thataly due and payable.

THEREFORE, pursuant to Articla Seven of the Indenture, on April 17, 1980, (the "Rapayment Date"), the Notes will be repaid at 100% of their principal situant upon presentation and surrender for payment accompanied by all unmatured coupons appertaining thereto. Payment will be based on \$101,694.04 per \$100,000.00 cartificate presented which includes accrued interest on interest from April 9, 1990 to April 17, 1990 at the offices of the Faying Agents as follows:

Principal Paying Agent Benkers Trest Company Corporate Trest and Agency Group 1 Appold Street Broadgate Lendon, EC2A, 2HE, England

Paying Agents e Indosuez Luxem 39 Alles Scheller L-2530 Luxembourg

Swiss Bank Corporation One Asschenvorstadt CH-4002 Basie

On and after the Repsyment Date, subject to receipt by the Trustee on or before the Repsyment Date of the moneys for the repayment of all the Notes to be repaid, together with accrued interest thereon and interest to the Repsyment Date, all Notes and coupons will no longer be deemed Outstanding and all rights with respect thereto, except the rights of the Holders therefor to receive the amounts as set forth above, shall cease.

CitiFed Capital Corp., Company By: Bankers Trust Company, Dustas Dated: April 16, 1990

20th April, 1990

INTERNATIONAL CAPITAL MARKETS

Treasuries stabilise after falling on weaker dollar

By Janet Bush in New York and Deborah Hargreaves in London.

US TREASURIES continued to os TREASURIES continued to retreat yesterday morning as the dollar weakened against the Japanese yen, but price losses were less than on Tuesday and Wednesday.

At midsession, the Treasury's benchmark long bond

was quoted & point lower to yield 8.84 per cent. The dollar was quoted at Y156.40, more than Y2 lower

than the highest levels seen in New York and well below levels above Y160 seen this week. The strength of the US currency this year has provided a powerful underpinning for the Treasury market, and its softening trend this week has helped erode already fragile

Nevertheless, midsession bond levels were above earlier lows when long-dated issues were quoted % point lower, suggesting that the market may be stabilising after this

week's collapse.

Behind the current loss of confidence is concern about inflationary pressures after this week's larger than expec-ted rise in consumer prices, the prospect of significant new

GOVERNMENT BONDS

supply including the May quarterly refunding, expanded weekly bill auctions to finance the thrift bail-out and rumours of substantial Japa-

nese selling.
The market was rife with unsubstantiated rumours on Wednesday about the Japanese Ministry of Finance requesting securities firms to be more controlled about their US invest-ments as well as speculation about a possible rise in the Japanese discount rate.

Nippon Tel. &Tel. 9% 98.
Norway 8% 9%.
Oesters Korthik, 9% 94.
Sumittorno Corp. W/W 4 93.
Sweden 8% 96.
Topota Mtr. Corp. W/W 4 93.
Victorian Rep 11% 92.
Unition 8k. Switz, 9% 02.
World Bank 8% 99.
World Bank 9% 99.
World Bank 9% 98.
World Bank 9% 99.
Average price change.

E.I.B. 6 § 95.

E.I.B. 8 2000
Eino Coald. Steel 7% 94.
Euroffina 6 % 95.
Elec De France 5 % 97.
Hydro-Quebec 6 % 99.
Japan Der. 8 % 5 % 95.
Japan Finance 5 % 97.
Ireland 6 % 97.
Ireland 6 % 97.
Ireland 6 % 97.
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Nippon Telg. 8 Tel 6 95.
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Portugal 6 % 95.
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World Bank 6 % 97.

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E.I. 843, 98...
Fion. Exp. Cd. 84, 92...
Fletcher Chall. 47, 98...
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Cone Circuit. 43, 43...

I.A.D.B. 6. 2004...
Kobe City 43, 98...
Leeds Perm. B/S. 41, 93...
Malaysia 54, 98...
Maxwell Comm. Crp. 5 95...
Nat. Bit, Hungary 51, 94...
Nationwide Ang. B/S. 4 93...
Prov. Newfoundland 5 03...
Thalland 41, 95...
World Bank 5 03...
World Bank 5 03...

BENCHMARK GOVERNMENT BONDS

	Сопроп	Red Date	Price	Change	Yield	Week ago	Month ago
UK GILTS	10.000 10.500	4/93 5/99	91-18 87-30	+02/32	13.52 12.79	13.38 12.59	13.48 12.46 17.36
US TREASURY	9,000 8,500 8,500	02/00 02/20	79-18 97-20 96-10	-06/32 -01/32 -03/32	8.86 8.85	8.63 8.69	8,82 8,57
JAPAN No 11	9 4.500	6/99 3/07	88.2628 89.1005	+0.192 +0.206	7.30 7.12	7.30 7.20	7.28 7.14
GERMANY	7.750	02/00	93.8500	-0.250	8.69	8.63	8.69
FRANCE BYAN	9.000 8.500	02/95	95.6932 92.4600	-0.142 -0.470	10.15 9.71	10.02 9.59	10,55 9,90
CANADA *	9,750	05/00	87,7500	-0.100	11.87	11.43	10.85
NETHERLANDS	7.750	01/00	92.2900	-0.140	8.95	8.93	8.98
AUSTRALIA .	12.000	7/99	92,3780	+0,001	13.45	13.36	13.29

Prices: US, UK in 32nds., others in

These were not confirmed, but pointed to concern about Japanese demand for US paper and worry about rising interest rates abroad which would make the US market less attractive unless yields rise in

THE UK gilts market refused to find succour yester-day in a lower than expected public sector borrowing figure for March, and drifted down-wards in light trading. The market continues its obsession with a high level of UK infla-tion, which was underscored yesterday when a brokerage house released a forecast for inflation of 10.6 per cent – almost 1 per cent higher than other houses had been suggest-

The public sector borrowing figure for March came in at £1.6bn, which was below the £2.4bn forecast by most ana-

It pushes the spectre of new gilts issuance slightly further into the future. Gilts have also been

FT INTERNATIONAL BOND SERVICE

Listed are the latest international bonds for which there is an adequate secondary

Technical DelaiATLAS Price Sources depressed by the drop in the US Treasury bond market. The 11% per cent 2007 gilt dropped by % of a point to 96.01 as the futures contract fell even furthers.

Sentiment in the gilts mar-ket continues to be fragile as retail participants stay away from the market while it is in such bearish mood.

■ WEST GERMAN bonds took another tumble yesterday as the market followed US Treaspries downwards and continsuries downwards and contin-ued its concern about German monetary union. Statements yesterday by the East German Prime Minister, Mr De Mai-ziere, calling for a one to one conversion rate for the East German Mark did not help sen-timent in the West German bond market

bond market. The benchmark 7% per cent 2000 bond was fixed slightly lower at 93.85 from a previous level of 94. Traders sold their holdings on the futures market in advance of the Bundes bank's regular meeting yester

BANCA

The Stockholders of Banca Commerciale Italiana are called to an Ordinary General Meeting to be held at Piazza Belgioloso 1, Milan, Italy, at 10 a.m. on 27th April 1990, and if necessary for the second time of convening on 25th May 1990 at the same time and place, to resolve the following

1) Reports of Board of Directors and of Internal Auditors; submission of Balance Sheet at 31st December 1989 and resolutions arising therefrom.

2) Appointment of Board of Directors. 3) Resolutions as to the remuneration for the Dir

Holders of shares bearing the right to vote are entitled to take part in the General Meeting provided that they have deposited their shares with the Bank or with Monte Titoli at least five days before the date of the General Meeting, in accordance with the provision of Art. 4 of Law No. 1745 of 29th December 1962. This also applies to those who are registered in the Share

> The Chairman of the Board of Directors

W VALMET Paper Machinery

US\$70,000,000

and

Æ

Die Erste österreichische Spar-Casse-Bank First Austrian Bank

formerly

Die Erste österreichische Spar-Casse

U.S. \$40,000,000

Subordinated Floating Rate Notes Due 1992

Notice is hereby given pursuant to the Terms and Conditions of the Notes that for the etx months from 23rd April, 1990 to 23rd October, 1990 the Notes will carry an interest rate of 8,00% persuarum. On 23rd October, 1990 interest of U.S. \$457.50 vill be due per U.S. \$10,000 Note apainst Coupon No. 17.



Agent Bank ROYAL BANK OF CANADA **EUROPE LIMITED**



Nationwide Anglia Building Society (Incorporated in England under the Building Societies Act 1986)
Subordinated Floating Rate Notes due July 1998

For the three months 17th April, 1990 to 17th July, 1990 the Notes will carry an interest rate of 15.875% per annum with a coupon amount of GBP 395.79 per GBP 10,000 Note, payable on 17th July, 1990. Listed on the Luxembourg Stock Exchange.

Bankers Irusa Company, London

Agent Bank BRITANNIA BUILDING

SOCIETY 250,000,000 Floating Rate bordinated Notes Due 2005

U.S. \$250,000,000 Security Pacific Corporation Floating Firth Subordinate Capital Notes due 1997

voteholders are advised that for the interest Period from February 21 1990 to May 20, 1990 Inclu-sive, the sum of U.S. \$211.23 will be payable on the interest paymer date, May 21, 1990, per U.S \$10,000 principal amount of Notes. April 20, 1990

TURKEY The Financial Times propose to publish this survey on:

24th May, 1990 For a full editorial synopsis and advertisement details, please

Ciro Costante, Birinci Levent, Toren Sok 14, Iskender Apt 1 80600 Istanbul, Turkey Tel: (1) 1792648/1795350, Telex: 27265 CIROTR, Fax: (1) 1641761 FT or Chris Schaaming

in London on on 071-873 1422

or write to him at:

FINANCIAL TIMES

Closing prices on April 19
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Canada 55 93...
Cr.Local France 64 94...
Denmark 64 93...
E.I.B. 47 93
Norwey 51 95...
Secden 44 93...
World Bank 79 98...
World Bank 79 98... 884, -04, -14, 924, -04, -15, 924, -04, -04, 984, 0+04, 914, 0 0

873 924 973 914 Deutsche Bk. Fin. 15 9 Elec. De France 94, 99 E.I.B. 7 96 LFr...... E.I.B. 71₉ 99 FL..... E.I.B. 999 Ecu....

99.87 99.92 24/04 15.33 98.37 98.62 8/09 8/3, 99.91 99.98 21/08 8/3, 99.91 99.98 21/08 8/3, 99.94 99.99 100.28 28/04 6.97 100.48 100.28 28/04 6.97 100.06 9/05 15.22 99.92 100.02 17/04 15.37 99.88 99.92 29/06 15.31 99.95 100.05 22/05 15.06 99.81 99.86 30/04 15.18 99.45 99.00 13/06 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 17/04 15.37 99.95 100.07 12/05 15% -0.01 on week -0.01

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Eng. China Clay 64, 03 S.
Fijitso 3 99 US.
Lachroler Grp. 54, 04 S.
Micolia Camera 24, 940M
MCA HIC 55, 03 S.
Mitselbicht Bix. 31, 04US.
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† Only one market maker supplied a price

coupon, overrible Bonds; Denominated in dollars unless otherwise indicated. Chg. day—Change on day. On date—First date of conversion into shares. Caw. price—Mominal amount of bond per share expressed recurrency of share at conversion rate fixed as issue. Prem — Percent-age premium of the currenteffective price of acquiring shares via the bond over the most recent price of the shares.

BZW to trade stock baskets in Europe

By Deborah Hargreaves

BARCLAYS De Zoete Wedd said yesterday that it was to start trading baskets of Euro-pean stocks for institutional

clients which would track nine markets in Kurope.

The brokerage house plans to construct the baskets to track benchmarks such as the more and the baskets to the baskets to track benchmarks such as the more and the baskets to the b FT-Actuaries, the Morgan-Stanley Capital International and some local market indices. BZW will act as market maker. in the baskets, which are based on stocks in the UK, West Germany, France, Swit-zerland, Italy, the Nether-lands, Sweden, Spain and Bel-

glum. The service can be tailored, to the needs of an institution, and BZW will also offer a hedge in the form of an over-the-counter index option. The basket products cash in on a wave of interest in basket instruments, which are sold in the UK as a form of programme trading.

Other brokerage houses offer similar services and most, will tailor a basket of stocks to

will tailor a basket of stocks toan institution's requirementseither by industry sector or by
country.

The demand for cash basketsincreased after the 1987 stock'
market crash, and there have
been several attempts to trade
them on a US exchange. A:
Swedish brokerage house, BCB
Broker, recently launched its. Broker, recently launched its first much-vaunted cash bas-ket based on Swedish stocks. These baskets are listed on

Reuters and cleared through the European Options Clearing-Corp. BZW plans to launch a basket based on German, stocks at the end of May, with a French basket to follow.

Broker fined for part in Repsol sale

By Tom Burns in Madrid

SPAIN'S stock market supervisory board, the Comi-sion Nacional del Mercado de Valores (CNMV), has fined Madrid broker Maxwell y Rapi-nosa Pta59m (\$5.4m) for "very serious" misconduct during last year's part privatisation of Repsol, the Spanish oil con-

giomerate.

Maxwell y Repinosa, which Maxwell y Rspinosa, which handled 11.5 per cent of foreign portfolio investment in Spain during the second half of last year, is the second broking firm to fall foul of the CNMV as a result of Repsol's Pta135bn flotation, which took place in May 1989. It is unlikely to be the last.

A CNMV official yesterday said that a further three firms are currently under investiga-

are currently under investiga-tion in connection with the placement of the oil conglomerate's shares. The Repsol flo-tation, the biggest in Spain, coincided with the creation of the chairmanship of Mr Luis Carlos Croissier, a former industry minister. Last summer the Spanish

Last summer the Spanish-subsidiary of Drexel Burnham Lambert, the US securities house, was fined Pta70m by the CNMV for using false names "applying" for Repsol shares to increase its percent shares to increase its percentage of Repsol shares during the flotation's placement period. DRL, currently facing criminal charges as a result of the Repsol flotation, has since closed its Spanish subsidiary.

Mr Robert Maxwell, a partner at Maxwell y Espinosa, said yesterday that the stockbroking firm "disagrees with the CNMV on the charge and will be appealing against the

will be appealing against the The CNMV official said Max-

well y Espinosa had violated Spanish market rules by acquiring, through intermedi-aries, Repsol shares which were part of the placement's tranche for small Spanish investors and then placing these at the same flotation price with investors outside Spain.

Chase acquires savings bank closed this week

CHASE MANHATTAN has acquired about \$2.1bn in deposits and 13 branches of the Seamen's Bank for Savings which was closed this week by the Office of Thrift Supervision Pontage of Thrift Po

sion, Reuter reports.

Chase has agreed to pay a premium of \$5 for the deposits to the Federal Deposit Insur-

auce Corp.
The 13 branches will open tomorrow as part of Chase's Metropolitan Community Bank, and Seamen's depositors will become depositors of the assuming bank.

The Seamen's Bank for Saukane with the bank for

Savings, with total assets of \$2.4bn, was closed by the Office of Thrift Supervision, and the Federal Deposit Insurance Corp was then named

SFr 46,740,000 medium term loan Underwritten by The Industrial Bank of Japan, Limited National Westminster Bank PLC Union Bank of Finland Ltd Union Bank of Switzerland Provided by The Industrial Bank of Japan, Limited National Westminster Bank PLC Union Bank of Finland Ltd Union Bank of Switzerland Mellon Bank N.A. WestLB International S.A. Bayerische Vereinsbank International S.A.

Arranger and Agent

Union Bank of Finland Ltd, London Branch

Credit Suisse

Landesbank Schleswig-Holstein International S.A.

PKbanken

January 1990



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for pan;

Repsola





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INTERNATIONAL CAPITAL MARKETS

Samsung postpones \$75m warrants issue once more

By Andrew Freeman

THERE was slow activity on the Eurobond market yesterday as the climate for new issues remained difficult. Traders said investors were still nervous in the volatile conditions, while yields continued to hamper most borrowing oppor-

Evidence of the problems faced by the market was pro-vided by the indefinite postponement of a \$75m bonds with equity warrants issue for Samsung, the Korean electronics company, The deal had already been postponed once, and a belated launch was planned this week with more favourable terms.

However, the continuing uncertainty of the outlook persuaded Samsung to retreat. Previous such issues for Korean companies have reached huge premiums to their issue

On the primary market, Nomura International was the lead manager of a successful Y300bn 10-year issue for the Inter-American Development

The deal had been in the pipeline for some weeks, but was held back by the unfavour-able mood in Tokyo. The apparent decoupling of yen bond markets from the weak US Treasury market this week was felt to have improved the tone sufficiently and Nomura

launched the deal to a steady reception in Japan and Europe. where institutions showed good appetite.

The bonds were priced at 101% with a 7% per cent coupon to yield 7.34 per cent at less full fees. This offered limited switching opportunities out of other recent 10-year issues. Nomura was quoting the paper comfortably inside fees at around less 1.60 bid. Issue proceeds were unswap-

In France, Société Générale brought an international FFr2bn tranche of a 10-year

INTERNATIONAL BONDS

convertible for Compagnie Générale d'Electricité, the power company privatised in June 1987. The wider deal totalled FFr5.6bn.

The paper was priced at FFr680 per bond, with each bond convertible into one share after July 1991. Against Wednesday's closing CGE share price, this represented a 7.9 per cent premium.

Traders said the deal met a strong initial reception, with the grey market price rising as high as FF7692 bld before settling back around 683 bid, giv-ing a premium of around 10.5

per cent. There is a subscription period which includes priority for existing CGE shareholders. The borrower has a call option on 1 July 1992 at 130 per cent.

Bankers Trust came late in the day with an Ecu75m fungi-ble deal for Credit Local, bringing the 10% per cent issue maturing in February 1995 up to Ecu300m.

The new bonds were priced at 100.075 per cent, giving a small yield pick-up over the existing issue.

The lead manager was quot-

ing the paper on fees at less 1% bid, but said the deal was launched too late for a trend to There was some comment from traders that the implied

yield of around 10.73 per cent on the Credit Local bonds had to be seen in the context of the Kingdom of Spain's debut Ecu issue expected early next week, which is likely to offer a yield of around 10.90 per cent. Many investors indicated they were waiting for confirmation of the terms on Spain's issue before committing funds to other Ecu

A FM150m three-year deal for Swedish Export Credit was launched by Union Bank of Finland to a calm reception. The bonds offered a 13% per cent coupon, and were quoted on fees at less 1% bid.

Sorrower FRENCH FRANCS Compagnie Gen.Elec.(a)§•	Ameuni m. 201	Coupon %	Prios 100	Meturity 2000	Fecs 2 ¹ 2/1 ¹ 2	Societe Generale
ECUs Credit Local(b)◆	75	104	100.075	1995	1%/14	Bankers Trust Int.
FINNISH MATIKKA Swedish Export Credit®	150	1314	101%	1993	138/78	UBF
YEN	30bn	74	1014	\$000	134/134	Nomura int.

Hungary tourism company to be sold off

IBUSZ, the Hungarian state tourism company. will be floated simultaneously on the Vienna and Budapest stock exchanges after June 21, when the new Budapest exchange is due to open, writes Nicholas Denton in Budapest.

In Vienna, \$10m worth of the shares will be issued, compared with only \$1m to \$2m in Budapest. Including shares to be sold under an employee share-ownership scheme, about 40 per cent of the company will be publicly available.

The public offering of Ibusz is Hungary's first real privatisation, so the authorities are determined to make the issue a success. Ibusz was chosen because the enterprise is profitable, earns hard currency and stands to gain from the expansion of tourism in Hungary.

Maley, the Hungarian state airline, is also moving towards privatisation. The size of the issue is expected to make a foreign tranche

SEC ends registration for private placings

By Janet Bush in New York

THE SECURITIES and Exchange Commission yester-day unanimously approved a rule which will exempt billions of dollars of privately-placed shares and bonds from its registration requirements. It believes this will create a larger, more liquid market, with more foreign participa-

Rule 144a, which has been hotly debated for two years, will allow US and foreign issuers to offer securities to large institutions without registering with the SEC, which regu-

Through this rule, the SEC is effectively helping to develop a strictly institutional securities market, relatively free of regulation, in which large professional investors will be able to trade debt and

It is believed that many more overseas companies, which have been put off issuing securities on Wall Street because of onerous registration requirements, will now choose to offer debt and equity

The final version of the rule, as expected, is much narrower than the SEC's original proposal. It will limit the exemp tion from registration to insti-tutions with at least \$100m invested in securities.

Another key provision is that Rule 144a will not apply to securities listed on US stock exchanges or on the Nasdaq over-the-counter electronic share trading system.

In its earlier form, the rule had only required institutions to have assets of \$100m to be eligible for exemption from registration. It narrowed the field in response to concern on wall Street that the smaller investor would be hurt as a new, expanded private place-ment market siphoned liquid-

ment market siphonest inquicity from the public markets.

The SEC also approved Regulation S, which clarifies registration requirements for offers and sales of securities offshore. It also voted to allow the National Association of Securities Dealers to launch Portal, an automated trading system for privately placed

Money laundering under siege

David Lascelles on an international initiative to drive out drug cash

curbing money laun-dering by drug dealers are contained in the report released yesterday by the world's leading industrialised countries. The proposals include limitations on bank secrecy, closer international co-operation and better monitoring of movements of cash.

The report is the result of a nine-month investigation by a task force of finance ministries, central banks and enforcement agencies. Initiated by the Group of Seven countries at their Paris summit last summer, it was later expanded to a total of 15 countries and four international agencies Mr John Major, the UK Chancellor, said in presenting the report yesterday that money laundering "is an inter-

national problem which cannot be tackled by individual countries in isolation. The commitment by the major industrialised countries to strengthen international co-operation in the fight against money laundering is therefore all the more welcome.

The report urges "rapid and tough actions," and its recommendations cover three broad areas.

First, banks and other types of depository institutions such as savings banks and building societies must improve their monitoring of money transac-tions. The report says this can best be done with a "suspi-cion-based" system by which banks are required to report cash movements which they suspect might be drug-related. The report comes down

against widening the US practice (also supported by Austra-lia) of mandatory reporting of all cash movements above a certain amount, in the US case \$10,000. This was thought to be

bout 40 proposals for too cumbersome, though the report says countries should keep the possibility of mandatory reporting under review. Second, banks must take better steps to identify their cus-

tomers. The report admits that this is not easy, because drug dealers can conceal their identitles behind nominees. But there is scope for closer scrutiny of unfamiliar clients.

Third, the report urges wider ratification of the 1988 Vienna Convention against drug traf-

Value of retail drug sales (\$bn)

	. US	Europa
Cocaine	28.8	6.71
Heroin	10	2.13
Cannabis	67.2	7.52
Total	106	16.36
Source: Report	of Unancial action on money	
Salina m	high committe	

ficking, which commits signa-tory countries to make money laundering criminal, and opens channels for mutual legal assistance. Although 80 countries have signed the conven-tion only four have so far ratified it: China, the Bahamas, Nigeria and Senegal It has to be ratified by 20 countries

before it has any force.

One key aim of the Convention is to lift the confidentiality constraint from banks in cases of suspected drug money laundering, thus providing the basis for monitoring and reporting. The report tries to estimate

the size of the drug money problem, although it admits that reliable statistics are hard

Using data supplied by the International Monetary Fund, the Organisation of Economic Co-operation and Development and the Bank for International Settlements (BIS), it says that the retail proceeds of dealing in the three main drugs cocaine, heroin and marijuana (cannabis) – amount to \$122bn a year. Of this \$35bn is avail-able to be laundered through the banking system. This esti-mate is based on the rule of thumb that only 10 per cent of the problem is positively iden-tified.

Because of the huge sums involved, the report says that drug sales often give rise to a greater physical volume of cash than that of the drugs for which it is exchanged. Therefore the proceeds from drugs should be more detectable than

the drugs themselves. The process of laundering goes through several stages. The first is "placement," or the physical disposal of bulk cash proceeds from obvious places of sale.

Then there is "layering," which is the conversion of drug money into other forms, for example by exchanging it into a different currency, to separate proceeds from their source. Finally there is "integration." when the money becomes part of the banking system by being deposited. To be effective, enforcement

must catch the money at an early stage, when the trafficker is most vulnerable.

The report gives some idea of the legislative task ahead. Money laundering is only a criminal offence in seven of the task force countries, though four more have legislation pending. There is also only a limited basis for international co-operation, as existing trea-ties do not allow all task force countries to obtain freezing or confiscation orders in another. Anonymous bank accounts

are not allowed in any of the

LONDON TRADED OPTIONS

permits anonymous bearer accounts. Not all countries require the identification of

beneficial owners of accounts.

Regarding the UK, officials say that many of the main provisions have already been introduced. The 1986 Drug Trafficking Offences Act requires banks to report suspicious money movements to the National Drug Intelligence Unit. Reports rose from 450 in 1988 to 1,200 last year, and 600 in the first three months of this year. The new Criminal Justice (International Co-operation Act), currently being implemented, will also give customs officers the power to seize cash at the bor-der if they suspect that it is the proceeds of trafficking.

The Bank of England is supervising the introduction of tighter controls, and has threatened to cancel the licences of banks that do not co-operate. It recently helped set up a committee of banks and building societies to help them develop anti-laundering them develop anti-laundering procedures.

here are no formal provisions for the task force to remain in exis-tence now that its report is complete. However, it may be reconvened to review progress. There is no formal obligation on countries to implement its recommendations, but the hope is that moral persuasion and peer group pressure will have the desired effect. The members of the task force are the US, the UK,

France, Germany, Italy, Japan, Canada, Sweden, the Nether-lands, Belgium, Luxembourg, Switzerland, Austria, Spain and Australia. The European Commission, the IMF, the BIS and the OECD are also represented.

Matif buys 28% of Swedish futures venture

MATIF, the French futures exchange, announced yesterday that it would take a 28 per cent stake in OMF, a futures venture set up in Paris by the Swedish electronic options exchange, OM, writes Deborah Hargreaves. The move also injects FFr50m in new capital into the screen-based system.

As part of the deal, Matif has paid OM FFr20m for OM's 20 per cent stake in OMF, and the Swedish company has agreed to co-operate with the French futures

exchange on technology development. The agreement marks the end of OM's involvement in the French futures market, after the firm made a bid to establish a venture there in competition with the Matif. A group of French banks supported the venture to pressure the Matif into developing a stock index futures contract.

Once the Metif had listed a futures contract based on the CAC-40 index, the banks withdrew their support. "Unfortunately the French banks were more interested in playing politics than in getting the market to work," said Mr Olof Stenhammar, OM's

founder and president.

The only contract that continued to trade on OMF, the BTAN bond futures contract, trades little more than 100-200 lots a day. The Matif will now try to resur-rect the contract and increase its liquidity.

OMF also gives the Matif a screen-based system on which it could trade some of its less liquid contracts leaving room on its trading floor for its busy products.

LONDON MARKET STATISTICS

RISES AND FALLS YESTERDAY

FT-ACTUARIES SHARE INDICES The Financial Times Ltd 1990. Compiled by the Financial Times Ltd. in conjunction with the institute of Actuaries and the Faculty of Actuaries Year ago (approx) Tue Apr 17 Wed Apr 13 **EQUITY GROUPS** Thursday April 19 1990 & SUB-SECTIONS Est P/E Ratio (Net) Figures in parentheses show number of -0.9 -1.1 -0.6 -1.3 -0.5 -1.1 5.39 5.73 6.10 5.65 4.21 15.65 18.56 12.36 10.24 15.45 Building Materials (27) Contracting, Construction (37)..... .1019.23 1352.25 .2372.66 Electricals (10) Electronics (29) Engineering-Aerospace (8)... 1760.67 435.62 Engineering-General (43) Metals and Metal Forming (6) 9 Motors (16) 0 Other Industrial Materials (24) 1 CONSUMER GROUP (177) 22 Brewers and Distillers (21) ... 25 Food Manufacturing (20) 26 Food Retailing (16) 27 Health and Household (13) 29 Leisure (31) 31 Packaging & Paper (13) 40 OTHER GROUPS (105) Agencies (17) 42 Chemicals (23). 47 Water(10) 48 Miscellaneous (26) 59 500 SHARE INDEX (500)..... -09 11.39 4.86 10.83 11.91 1195.11 1197 04 1198.79 1172.93 17.48 782.81 791 71 79.92 727.37 24 14 831 75 352.08 886 26 709.81 34.46 1267 70 1267.56 1274.44 1046.61 19.43 642.95 648 23 653.66 576.57 26.30 1045.89 1041.77 1042.32 931.83 4.85 448.01 522.73 452.50 334.07 5.62 1139.72 1140.18 1149.00 1307.68 4.99 510.28 311.05 312.60 367.07 -0.8 -1.3 +0.1 -0.5 +0.3 -0.7 -0.9 -0.7 EL FINANCIAL GROUP (110)... 6.46 6.21 4.29 3.94 7.23 66 Insurance (Composite) (7) 67 Insurance (Brokers) (7). 68 Merchant Banks (7) 639.59 8.18 8.21 14 25 69 Property (48). -0.3 -1.0 8.95 1144.79 1140.53 1141.86 1098.30 42.87 1324.97 1319.49 1325 80 1376.89 71 Investment Trusts (67) - 13 04 1095.00 1098.14 [101.24 1064.62 -09 -4.97 1085.20 Day's Day's Day's Apr Change High (a) Low (b) 18

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_	British Government Up to 5 years 5-15 years Over 15 years Irredeemables All stocks	112.36 114 69 116.06 136.76	-0.16 -0.08 +0.24	112.42 114.87 118.15 136.44 116.09	- - -	4 19 4.96 4.16 1.51 4 61	4 5 6 7 8 9	Medium Syears Coupons 15 years 25 years High Syears Coupons 15 years 25 years Irredeemables	13 20 12.08 11.64 13.31 12.39	13.15 12.07 11.65 13.26 12.37 11.91 11.52	10.95 9.81 9.32 11.06 10.02 9.48 9.02
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Bank, Next, J. Rothschild and Tusker Res. Puts and calls in

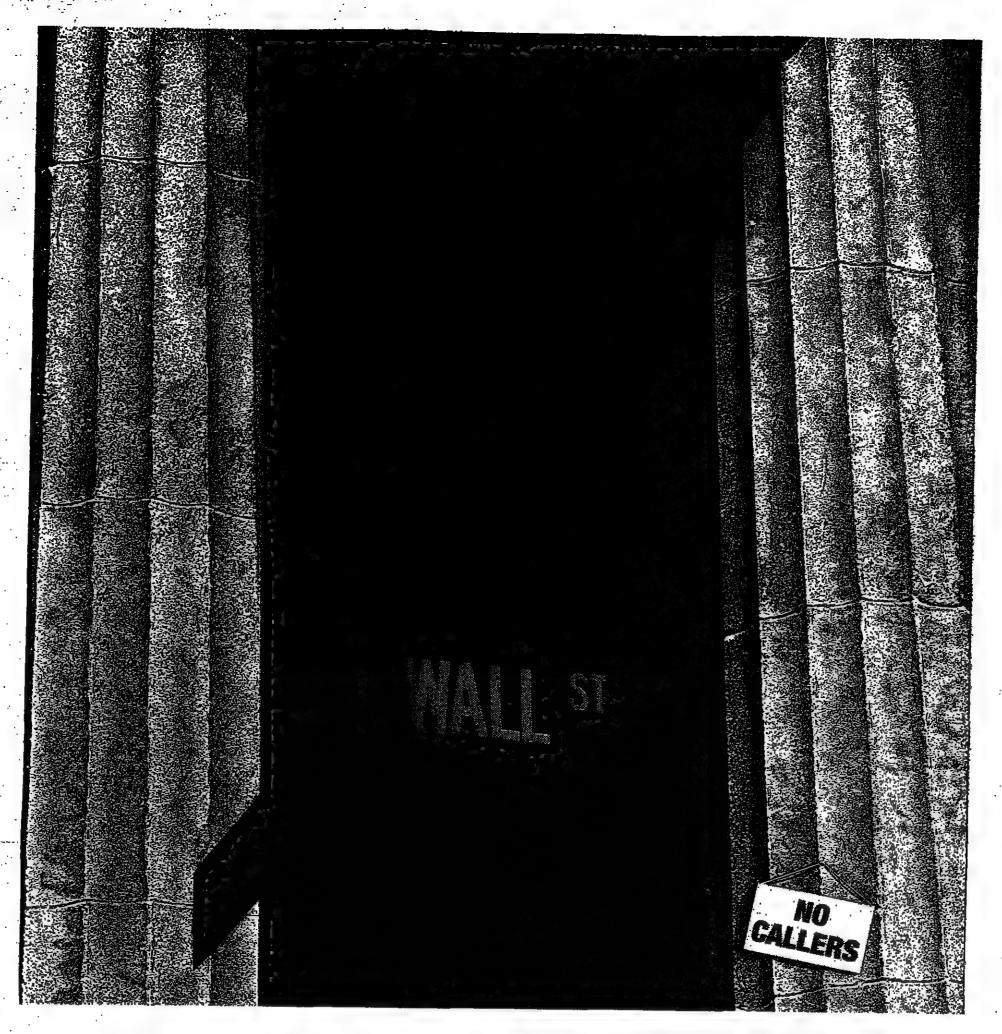
A decline by US Treesury bonds between 8,187 calls and 7,835 prompted selling and the pre-mium narrowed once again to 13 points, which pulled the oash index down to the day's low. puts. The April 2,150 call series was the busiest, trading 4,800 contracts option, trading 1,860, of which 1,089 were calls and 771 were puts. The May 240 call series, at 309 contracts, was the most active. Dealers noted brisk two-way trade. GEG also featured on hydra of the Movember 200

calls.

British & Commonwealth options will re-open for trading this morning at 8.35sm, the London Traded Options Market said. But as long as the ordainary B&S shares are suspended, options trading will be only allowed for closing business only, it added.

CALLS PUTS

1	Amstradi (*75)	70 80	44	144 84	161 12	21g 71g	9 h	1
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	Blue Circle (*217.)	200 220	19	28 16	33	5	7	84 19
_	British Cas (*207)	200 220	14	16	23	꿥	7 20	21
N 57 37	Dittass (*116.)	110 120	13 7	16 10	19 15	41 <u>1</u> 101	15	10
3 7 7 2	Glaver (*785)	775 800	47 33	65	80	22 30	- 42	52
2 · · 2 3	Nawker Skid. (*603.)	600 650	35 13	57 38	73 49	30 45	47 65	54 57
3 2	Hillsdown (*239)	220 240	23 10	31 19	39 26	3h	6 25	17
	Loterino (*257)	240 260	28 4	10	17	3	29	30
	Midtant Bk (*315 >	300 330	30 12	28	30	4 20	2	25
5 6	R. Royce (*185)	180 200	14 4½	22 11½	26 15	6 16	7½ 18	91 ₉
i i	Sears (*88.)	90 100	3½ 1½	6½ 3½	9 51 ₂	8 16	18	16 18
2 0 8	THF (*251,)	240 260	15 6	23 15	30 19	6½ 18	10 21	14 24
8	Thora EMI . C646)	650 700	35 13	42 25	62 38	21 57	39 74	47 71
4	TSB (*128)	120 130	14 7	17 10	14	2½ 6½	8.	9
2 5	Vzal Reefs (~590)	100 80	8 4ኪ	12 8	별	6 12	10 15	10 17
4	Wellcome (°669)	650 700	54 29	84 59	107 80	26 52	35 60	42 67
5 Z	2)25	URO F	T-SE 225 2	Bibe 275 2	X (*2	186) 1375 :	2425 :	147
	CALLS Jon 120		60	40		_		
2 4 4	Sep 170 Der 219 Mar 255	- 1	10 54	- ;	27 72 103	18	12 42 70	7
•	PUTS		10	~	L60 		117	_



RULE 144A CAN'T GET YOU EQUITY CAPITAL FROM U.S. INSTITUTIONS. WE CAN.

The SEC's new Rule 144a will make it easier for non-U.S. companies to place equity with institutional investors in the U.S.

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KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV. IJMUIDEN, THE NETHERLANDS

Invitation to attend the annual

general meeting of shareholders

to be held on Tuesday, 8 May 1990, in the Okura Hotel, Ferdinand Bolstraat 333, Amsterdam, starting at 2.00 p.m.

The matters for discussion will be:

- The Report of the Board of Managing Directors for 1989.
- Approval of the Accounts for 1989; consideration of the dividend proposal.
- Retirement and (re)appointment of Supervisory Board members. For all information on this subject we would refer you to pages 2 en 3 of the
- Authorization of the Board of Managing Directors to purchase (depositary receipts for) shares in the Company.
- Designation of the Board of Managing Directors as the body empowered to take decisions concerning the issue of shares, the granting of rights in respect thereof and the limiting or exclusion of subscription rights.
- Proposal to fix the remuneration of the members of the Supervisory

The meeting is open to all shareholders and depositary receipt holders either in person or represented by a proxy authorized in writing, provided that, in the case of holders of ordinary bearer shares these holders have lodged their share certificates - and in the case of depositary receipt holders these holders have lodged their depositary receipts - not later than Thursday, 3 May 1990, at the offices of one of the following banks:

in the Notherlands Algemene Bank Nederland N.V. in Amsterdam, Rotterdam or The Hague, Amsterdam-Rotterdam Bank N.V. in Amsterdam, Rotterdam or The Hague;

Kredietbank N.V. in Brussels;

in German Deutsche Bank AG in Frankfurt am Main or Düsseldorf;

In France:

Lazard Frères & Cie in Paris; in Switzerland:

Union Bank of Switzerland in Zurich, Crédit Suisse (Swiss Credit Bank) in Zurich, Swiss Bank Corporation in Basie;

or have submitted evidence of the fact that they are shareholders or depositary receipt holders at the Company's offices in IJmuiden not later than Thursday, 3 May 1990, which may be effected by submission of evidence that their share certificates or depositary receipts have been deposited for safe keeping with De Nederlandsche Bank N.Y. or with one of the banks mentioned above and are blocked with such bank until the close of the meeting.

The certificate of deposit issued by one of the above-mentioned banks will serve as an admission pass for entry to the meeting.

The Annual Accounts for 1989 together with the Agenda are available for inspection at the Company's offices; copies may be obtained free of charge from the above-mentioned banks by shareholders, depositary receipt holders and holders of the 6% convertible debenture loan 1985.

IJmuiden, 20 April 1990

KONINKLIJKE NEDERLANDSCHE HOOGOVENS EN STAALFABRIEKEN NV

Hoogovens Groep 💢

WESSANEN

KONINKLIJKE WESSANEN NV

Dividend payment

Ordinary shares At the Annual General Meeting of Shareholders held on April 19, 1990, the dividend for the financial year 1989 was fixed at Dfi 2.44 for each ordinary share (par value Dfi 5). An interim dividend of Dfi 0.72 was The undersigned hereby states that payment of the final dividend of Dfl 1.72 per Dfl 5 share of Koninklijke Wessanen NV on the bearer depositary receipts issued by the undersigned will be made as from May 7, 1990 as follows.

A cash dividend of Dfl 0.68 per Dfl 5 share, less dividend tax at 25%, will be payable upon the surrender of dividend coupon No.11. The dividend of Dfi 1.04 per Dfi 5 share in cash or 2% in shares chargeable to the paid-in surplus will be payable upon the surrender of dividend coupon No.12. If holders of bearer depositary receipts opt for the dividend of Dfl 1.04 in cash, payment, less dividend tax at 25%, will be made upon the surrender of dividend coupon No.12. In so far as holders of bearer depositary receipts opt for the dividend of 2% in shares chargeable to the paid-in surplus, the surrender of dividend coupons bearing the number 12 and relating to 50 ordinary shares will entitle the holder to receive one new bearer depositary receipt for one share, bearing dividend coupons numbered from 13 onwards and a

If any dividend coupons bearing the number 12 are not tendered for conversion into bearer depositary receipts by June 29, 1990, the bearer depositary receipts to which they relate will be sold and the net proceeds of the sale be held at the disposal of the holders of these bearer depositary receipts in proportion to their holding.

Commission in accordance with the scales (aid down will be paid to members of the Amsterdam Stock Exchange Association in connection with the conversion of dividend coupons bearing the number 12 into new bearer depositary receipts; this implies that holders will not incur commission charges upon conversion.

Dividend coupons may be tendered for payment or conversion at the head offices of the Amsterdam-Rotterdam Bank NV, Pierson, Helding & Pierson NV, Algernene Bank Nederland NV, Bank Mees & Hope NV, Credit Lyonnais Bank Nederland NV and the NMB-Postbank Groep NV in Amsterdam, the Netherlands.

Dividend coupons must bear the stamp of the office through which they are tendered. The dividend pertaining to bearer depositary receipts of the CF type will be paid via the body by whom the dividend sheet was held on April 19, 1990 in accordance with the conditions of

Stichting Administratiekantoor van aandelen Koninklijke Wessanen NV Amsterdam, April 20, 1990

Koninklijke Wessanen NV P.O. Box 410 1180 AK Amstelveen The Netherlands



UK COMPANY NEWS

Group's bankers confirm support as shares sustain 22% fall Lep makes Rockfort profit crashes by £5.7m £26m and set for eastern

ROCKFORT GROUP, the speculative property development accordingly.

Oper headed by Mr Roger Indeed, the results would

By Andrew Hill Since, yesterday revealed a sharp fall in pre-tax profits for 1989 which led to a 22 per cent drop in the value of its shares.

The company thought it appropriate to confirm it had the continuing support of its Turnover rose to £62.35m (£44.84m) but pre-tax profits slumped to £3.11m (£8.84m). Resultant earnings per share dropped to 4.6p (16.2p), and the dividend is cut to 1.9p (2.6p) with a final of 0.5p. The shares closed 7p lower at 25p, compared with a flotation price of 140p in the summer of 1968.

bloc growth

John Read: earnings growth

LEP GROUP, the services combine with extensive distribution and freight forwarding operations in West Germany, is poised to expand into eastern Europe.

This news was given with the preliminary statement issued yesterday, showing a 44 per cent rise in 1989 pre-tax

profits to £26.5m (£18.5m). Mr John Read, chairman, said: "We have always done a substantial amount of busiuss with the eastern bloc and the political changes that have taken place over the last few

months have thrown up new opportunities in our field."

The 1989 profits benefited from a full year contribution from National Guardian Corporation, the US security business with the security business. ness which became a wholly-owned subsidiary in Septem-ber 1988. NGC is one of the five largest security groups in

The NGC acquisition altered the balance of the group's activities, with more than haif of operating profits coming from security services, up from £6.67m to £25m. Distribution profits increased to £15.2m (£8.94m) and property and other activities made £3.61m (£10.8m). Group turn-over rose from £1.1bn to

Mr Read said earnings per share growth of 34 per cent -from 11.5p to 15.4p - provided the best reflection of the group's performance. The final dividend is 4.25p, making 6p

Interest charges rose sharply from £9.66m to £17.3m, although borrowings as a proportion of sharehold-ers' funds came down from 120 per cent to 106 per cent. Mr Read said the group was untroubled by the high gearing because asset backing from the property portfolio was estimated at 150p per share, compared with yesterday's share price of 148p, down 4p.

COMMENT

Lep's 1988 profits were actu-ally slightly below most mar-ket expectations, but analysts are still reasonably content about the long-term prospects. They foresee further benefits as management polishes exist-ing activities and exploits the east European market. In spite of economic fears, the lowmargin freight forwarding and distribution business continues to record the high volumes necessary to maintain growth. The profits breakdown this time should not be taken as a firm indication of the future divisions are at different stages of development, points out Mr Read – but National Guardian's strong reputation and contribution should con-tinue to underpin the distribu-tion profits. Recently, the shares have bounced back from a low of 126p in October: assuming the group makes more than 234m before tax this year they should be worth holding on a prospective p/e of

profitability.

First, Mr Smee said the "virtual disappearance" of institu-tional investors, especially in the second half of the year, had These results added more

proof, if any was needed, of the distressed state of the property sector, and the company held out few hopes that the sector made it difficult to fund commercial projects. was likely to see much of a recovery in 1990. It was reduc-ing its financial exposure to Second, he claimed the high interest rate environment had hit margins at Rockfort Homes

Rockfort Group Share price (pence)

Indeed, the results would have been even worse had it not been for a change in accounting policy. The interest costs on commercial development properties, which were previously taken through the profit and loss account, have been capitalised in the latest Under the previous accounting system, pre-tax profits would have been £1.85m and earnings per share 2.7p.
Mr Smee said two related changes in the trading environ-ment had led to a reduction in

Jul 88

and depressed demand for the company's office and retail

1989

The total number of units sold by Rockfort Homes during the period was 313 compared with 158 in 1988. Its contribution to the group's profits was reduced from £1.77m to £1.64m

agency, has gone to McCann Erickson.

A final dividend of 3p makes

a total of 4.5p (4.1p).

The share price closed ip down yesterday at 69p.

The jury is still out on whether

the audacious buy-back of shares, at 150p - then 7p above the market price, will

pay off. So far the results -

spart from the earnings per share growth — have been inauspicious. Apart from the heavy burden of interest costs, the more difficult conditions have meant that disposals of

non-core businesses have taken longer and raised less than might have been hoped, aggra-vating the overdraft. While no

one doubts the strength of business publishing and the

overseas earnings, the question is how vulnerable are the UK conferencing, financial advice and marketing activities? The forecast pre-tax profit is £8m, initial advice and marketing activities?

giving a prospective multiple

of little more than four. It looks cheap, but so much

depends on the outlook for

COMMENT

but that was thought to be a considerable achievement in the circumstances.

Margins had been squeezed but there was a satisfactory level of sales and a positive cash flow. By the year end the land bank stood at 269 units. Rockfort had not acquired any new development land since August 1988 but had several

options.

Mr Smee said the company was, however, involved in three major projects which should provide a solid base for development into the 1990s. The projects are: a town cen-

tre shopping scheme in New-port, Gwent, a riverside devel-opment in Chelmsford; and a

joint £250m shopping and lei-sure centre in Reading. Interest payments for 1989 rose to £3.55m (£967,000). At the year end balance sheet borrow-ings stood at £26.5m (£11.7m) and gearing levels rose from 41 per cent to 89 per cent.

Higher interest costs hit IBC

company had made the sched-uled £10m repayment on the syndicated loan associated

with the shares buy-back. But its overdraft had risen. The schedule involves a fur-

ther repayment of £10m this

accounted for 57 per cent of turnover and 61 per cent of

operating profit, proportions that were set to rise this year partly because of disposals of non-publishing businesses.

Mr Bell also said that about two thirds of business informations.

two thirds of business informa-tion profits arose outside the UK, serving professional mar-kets in the US, the Nether-lands, Italy and Australia. In the UK, however, trading

difficulties had had an effect on parts of the conference busi-

ness as well as in the tip-sheet

operation. Business publishing

IBC also announced vester day the sale of three subsid-

aries for a total of £1.8m.

Swinton Electro-Plating and

ASM Accessories have been

sold to Mr Don Smith, their

managing director; Mallerman Summerfield, an advertising

had not been affected.

Business information

By Jane Fuller

INTERNATIONAL Business Communications, which publishes business information and organises conferences, saw pre-tax profits fall by 32 per cent in 1989 after a fivefold increase in interest costs.

The group's debt shot up in February last year after it spent about £40m buying back 40 per cent of its shares. While pre-tax profit fell from £13.33m to 29.01m, earnings per share went up to 16.5p (13.4p).

Turnover, partly swelled by acquisitions, advanced 42 per cent to £94.27m. Operating profit was 12 per cent ahead at

Mr Michael Bell, chairman, said the margin had been reduced because the publishing activities that had been added had lower margins than the 50 had lower margins than the 50 per cent level enjoyed by the Fleet Street Letter tip-sheet business during the bull market. After three good years, tip-sheet was expected to fall back this year.

Nearly half of the operating profit was engled in by \$7.57m.

profit was soaked up by £7.57m (£1.43m) in interest costs. Mr Bell said debt had come down from £71.5m to £67.5m. The

Frost tops £5m after 42% advance

FROST GROUP, the petrol the Unlisted Securities Mar-retailer and sales promotion ket. ofi companies retail activities, prices for sites would retailer and sales promotion ket. growth in 1989 with taxable profits rising 42 per cent from The company anticipates

UK accounts for 30% of

global merger activity

another record year in 1990 and plans to change its

£3.53m to £5.02m.

During the year R Raphael & Sons, the banking services arm, increased profits to £409,000 (£351,000).

Mr Robert Frost, chairman, said that the activity was unrelated to petrol retailing and that it was intended to demerge the company onto

GLOBAL MERGERS and acquisitions activity tumbled by one third during the first

quarter of 1990 compared to the last quarter of 1989,

according to statistic com-piled by KPMG Peat Marwick McLintock, the accountancy

firm.

But although the total value of deals has fallen

from \$40bn to \$25bn (£15.2bn) over the period, the UK has continued to be extremely

active, accounting for 20 per cent of the global acquisitions by value and 30 per cent by number, against 21

and 27 per cent respectively during the last quarter of 1989.

The UK made 148 acquisi-tions in the period worth

interesting offer has been received which the directors were considering, said Mr Frost. As a result the demer-ger details would be held back until the position clarifies.

During the year the com-pany's sites increased from 56 to 68. Since the year-end this had risen to 100 following further purchases.

However, for the future Mr Frost said that following the Monopolies and Mergers Com-mission conclusion that there was no need for change in the

\$5.2bn, against 63 cross-bor-

The average value of the deals conducted during the

period fell by 37 per cent,

although the value of deals in the market for medium-sized

companies - those under \$100m - fell by an average of

only 22 per cent.
Peat Marwick blames the

decline on two factors: the collapse of the US junk

bond market, which has made it difficult for US com-

panies to finance cross-bor-der transactions, and high

Copies of Deal Watch are available from Mergers and

Acquisitions Services, RPMG Peat Marwick McLintock, 1 Puddle Dock, London EC4

der disposals.

mentioned in the MMC report but by "acquiring, planning and developing ourselves" he said, the company could buy at lower than that level.

It could not afford to pay

the yardstick price of £1 per

gallon of annual throughput

When the move was complete shareholders will be asked to agree a change of name, probably to Save Petrol Retailers.

Turnover for the period increased 38 per cent to £75.8m (£56.62m). Earnings per share came out at 25.2p (18.03p) and the total dividend is raised to 13p (9.25p) with a proposed final of 7.75p.

Brown & Jackson issue flops

By Maggle Urry

ONLY 9.4 per cent of an issue of new shares from Brown & Jackson, the discount retail group, has been taken up by its existing shareholders.

A simultaneous issue of con-vertible preference shares was

verting preference shares was taken up by 10.9 per cent of existing holders.

However, Mr Bryan Duffy, chairman, said he was not disappointed with the result of the tenne which took the form the issue which took the form of a conditional placing with an open offer to existing sharean open offer to existing share-holders. Mr Duffy said that the group "would not anticipate issuing any more new shares in the coming year."

He said that institutional shareholders had taken up the new shares through their sub-

underwriting commitments rather than by claiming their shares under the clawback procedure.

Lowndes Queensway, the loss-making furniture and carpet retailer, which held a 20 per cent stake in Brown & Jackson, did not take up its entitlement.
The existing shares closed

yesterday at 52p, unchanged on the day, and 6p below the 58p placing price. The new shares ended their first day's trading

The two issues raised £31.4m which will be used to repay debt and to expand the Pound-stretcher chain which Brown & Jackson bought from Lowndes in March last year.

Drayton Cons Trust

Net asset value of Drayton Consolidated Trust fell to 632.75p at end-March 1990, against 654.625p a year earlier and 700p at September 30.

Net revenue for the six months to March 31 was £2.4m (£2.09m) for earnings of 6.91p (6p). An interim dividend of 4.25p (8.75p) is declared.

SUNBELT HOLDINGS S.A. Registered Office: 7, rue Pierre d'Aspeit 1142 Luxembourg R.C. Luxembourg B18113 NOTICE TO THE SHAREHOLDERS

Notice is hereby given to holders of shares in SUNBELT HOLDINGS S.A. that an EXTRAORDINARY GENERAL MEETING will be held on the 30th of April, 1990 at the registered office in order to consider a proposal to restructure the share capital of the company in accordance with the following resolutions:

To give discharge to the directors who have resigned:Mr Erik Monson whose resignation became effective from the 28th January, 1990, Mr Serge Tabery whose resignation became effective from the 29th of January 1990, Mr Richard Mallery whose resignation became effective from the 14th March, 1990 and Mr Thomas E. Salter whose resignation became effective from the 28th March, 1990.

To consolidate the existing share capital being 1,735,000 shares of USD 10. - each, by changing the shares' nominal value to obtain 173,500 shares of USD 100.- each,

To reduce the par value of USD 100,- each down to USD 21.39,- per share to reflect the write down of the value of the investments of Sunbelt Holdings" subsidiaries in the real estate market and to compensate their consequent losses.

To waive the shareholders' preferential subscription rights,

To authorise the directors of the Company within the limits of the authorised capital to increase the share capital from USD 3,711,165.- by an additional 7.000,006 - to USD 10,711,171.- by issuing 327,256 additional shares to rank pari passu with 173,500 shares as per resolution 2.

Shareholders should note that the three remaining directors of the Company have conditionally tendered their resignations and that, as a consequence if the resolutions 2-5 inclusive are not all passed then in addition the following resolutions will be put to the

To accept the resignations and to grant discharge to the three remaining directors, Mr Tor Andenaes, Mr Tore Diskerud and Mr John Graham,

To put the Company into voluntary liquidation and to appoint

Shareholders should note that certain of the loans advanced by

third parties to subsidiary companies and for which the Company is guaranter are in default and that the respective lenders have already commenced proceedings to realise their security,

A memorandum to shareholders setting out all the proposals in detail is available from the Company at its registered office at 7, Rus Pierre d'Aspelt, Luxembourg, and from the office of its principal US subsidiary Sunbelt Holdings Inc from Gateway 426 North, 44th Street, Suite 375, Phoenix, Arizona 85008.

The Board of Directors.

DAI ICHI KYOTO REINSURANCE COMPANY S A

Dai Ichi Holdings Plc, together with a minority shareholder, acquired on 30th March 1990 the entire issued and paid share capital and loan stock of Dai Ichi Kyoto Reinsurance Company S A from the shareholders in consideration for the payment of BFr 1,601,525,000 (USD 45,750,000).

An amount of BFr 160,000,000 (USD 4,570,000) was paid in full for all the issued shares and an additional amount of BFr 1,441,525,000 (USD 41,180,000) was paid for the settlement in full of the Subordinated Loans inclusive of accrued interest, thus releasing a reserve fund of BFr 1,441,525,000 (USD 41.180.000).

> 326 Avenue Louise 1050 Brussels Belgium

Tel: (02) 646 1408 Tel: (02) 646 1350

Fatc (02) 646 2639



Jrange Pres State

The South African Land & Exploration Company Dmited

Vaal Reefs Exploration and Mining Company Limited

Welkom Gold Holdings Limited Western Deep Levels Limited

Abridged quarterly reports and preliminary profit announcements - Dividend declarations

Abridged reports for the quarter ended March 31 1990

Vaal Reefs

Brown &

Issued Capital in shares of 50 cents each: 19 000 000 ordinary and 100 694 (previously 59 734) S ordinary shares

	Quarter	Quarter	Year
	ended	ended	ended
4,	Mar. 1990	Dec: 1989	Dec. 1989
and the second s		, ,,,,	(Audited)
Gold			
Area mined - m2 000	497	536	2 090
Torts milled 000	2 684	2 778	10 920
Yield - g/t	6.64	6.86	6.91
Production - kg	17 818	10 067	75 455
Cost - R/ton milled	159.05	140.13	138.50
- R/kg produced		20 416	20 044
Price received on gold sales-R/kg	33 610	32 475	32 055
Urantum oxide			
Tops treated 000	2 275	2 331	9 195
Yield - kg/t		0.20	0.19
Production - kg	429 938	463 172	1 784 768
	R million	S million	R million
Turnover	616.8	664.3	2577.5
Profit before taxation	146.0	217.3	821.4
Provision for taxation	25.3	43.2	217.9
Profit after taxation			
Appropriation for capital	120.7	174.1	603.5
	59.9	07.0	. 207.0
expenditure		97.2	- 307.2
Profit available	69.8	76.9	296.3
Dividends - including a final		ارزو والحج الم	Jan 14 14
dividend of 800 cents per share		47. At	305.3
Decrease in retained profit			9.0
Earnings per share - cents	318	403	1 554
Capital expenditure - R million	76.5	97.9	321.6
Notes:			
Production was adversely affected	i by a numb	er of selem	nic eventë
particularly in the South Lease s			
O Division Associated in the state of		4	

2. The previous quarter's results include a half-yearly dividend from Southvaal Holdings Limited and are therefore not directly comparable with this quarter.

3. Orders placed and outstanding on capital contracts as at March 31 1990 totalled R147.1 million.

Elandsrand

Issued Capital in shares of 20 cents each: 96 619 825 ordinary and 330 471 (previously 209 661) 5 ordinary shares

		, ,	
• • •	Quarter	Quarter	Year
•	ended	ended	ended
	Mar. 1999	Dec. 1989	Dec. 1989
•			(Audited)
Area mined - m ² 000	102	93	359
Tons milled 000	487	548	1 944
Yield - g/l	6.27	5.76	6.67
Production - kg	\$ 116	3 707	12 971
Cost - R/ton milled	143.00	131.90	132.54
Cost - R/kg Produced	22 808	19 499	19 864
Price received on gold sales - R/kg.	33 445	32 583	32 154
•	R000	R000	R000
Turnover	102 853	124 414	420 329
Profit before taxation	32 105	52 104	165 756
Provision for taxation		266	2 804
Profit after taxation	31 842	51 838	162 952
Appropriation for capital		• • • • • • • • • • • • • • • • • • • •	
expenditure	16 691	24 640	85 554
Profit svailable	15 151	27 198	77 398
CLOSIC SASTORETAL TANDESCOND THE PROPERTY OF T	10.		
Dividends - including a final			
dividend of 40 cents per share			· 77 500
Decrease in retained profit		-	102
Earnings per share - cents			
- before appropriation for capital			
expenditure	33	53	168
- after appropriation for capital			
expenditure	16	28	80
Capital expenditure - R000	25 492	32 019	115 946
Notes:			
1. Gold production was adversely aff	ected by pl	annég mili	modunca-

tions and an anitcipated decline in grade from the main shaft. Excess ore hoisted during the quarter was stockpiled on surface. The mill modifications were completed during the quarter and the grade has returned to normal levels.

2. Orders placed and outstanding on capital contracts as at March 31 1990 totalled R24 336 000.

Western Deep Levels

lasued Capital in shares of 82 each: 27 194 115 ordinary and 277 757 (previously 217 082) S ordinary shares

	Quarter ended Mar. 1890	ended	
			(Audited)
Area mined - m² 000		225	917
Tons milled 000	1 638	1 689	6 584
Yield - g/t	5.69	5.78	6.16
Production - kg		9 757	40 569
Cost - R/ton milled		129.88	124.82
- R/kg produced	23 781	22 483	20 257
Price received on gold sales - R/kg.	33 676	32 480	32 077
	R pullion	R million	R million
Turnover	312,7	322,0	1 307.8
Profit before taxation	97.4	107.3	510.5
Provision for taxation	16.2	(10.6)	89.2
Profit after taxation	81.2	117.9	421.3
Appropriation for capital	91,4	111.3	461.3
expenditure	58.0	05.0	200.0
•		95.9	290.0
Profit available	23.2	22.0	131.3
Dividends - including a final			
dividend of 220 cents per share			131.6
_			
Decrease in retained profit			0.3
Earnings per share - cents	85	80	479
Capital expenditure - R million	58.0	96.8	295.4
Note:			
 Gold production continued to be which was reported last quarter. 	adversely. It is evide	affected by	y the fire e fire has

now been smothered and mixing faces are currently being reestablished. Full production from the area is likely to be achieved during the third quarter of this year.

2. Orders placed and outstanding on capital contracts as

S.A. Land

lasued Capital in shares of 35 cents each: 9 182 700 ordinary and

131 too (Newtoniny on 19013 Ditting		· 200	Water
	Charies	Quarter	
	Mac. 1999	babha Day 1000	
	DIME: COPO	Dec. 1309	
			(Audited)
Tons miled 000		665	2 656
Yield - g/t		0.54	0.54
Production - kg	. 872	357	1 427
Production, transport and			
screening costs - R/ton Milled		14,44	13 09
- R/kg produced		26 894	24 365
Price received on gold sales - R/kg	E3 664	32 726	32 105
	R000	R000	R000
Turnover	12 476	11 770	46 001
Profit before taxation	1894	1 227	6 571
Provision for taxation	491	205	2 391
Profit after taxation	903	1 022	4 180
Appropriation for capital			
expenditure	(243)		(34)
Profit available	1 146	1 022	4 214
Dividends - including a final			
dividend of 20 cents per share	,		4 172
Increase in retained profit			42
Earnings per share - cents	12	11	46
Capital expenditure - R000	9	7	106
Notes:			
There were no orders placed or o	untstanding	on capital	contracts

as at March 31 1990.

Ergo

lesued Capital in shares of 50 cent 3 491 527 (previously 3 440 944) 5 o			linary and	
Ouarter Quarter Year				
	ended	ended	ended	
	Mar. 1990	Dec. 1989	Mar. 1990	
Material treated - tons 000	9 443	9 556	37 092	
Gold production - kg		2 957	11 732	
Uranium-production ~ kg		39 680	149 736	
Acid production - lons		129 531	491 453	
Price received on gold sales – R/kg.	33 SIS	32 396	32 482	
	R900	R000	R000	
Turnover	113 642	106 856	430 728	
Profit before taxation	29 825	22 276	101 606	
Ergo division	20 336	13 207	67 441	
Daggatontein division	7911	7 223	29 406	
Simmergo division	1 578	1 846	4759	
Provision for texation	4 942	3 439	17 877	
Profit after taxation	24 883	18 837	83 729	
Appropriation for capital				
expenditure	9 527	8 257	35 662	
Profit available	15 356	10 580	48 067	
Dividends - including a final	-			
dividend of 55 cents per share			47 824	
Increase in retained profit			243	
Earnings per share - cents	33	23	105	
Capital expenditure – R000	9 770	7 688	34 414	
Note:				
Orders placed and outstanding March 31 1990 totalled R5 746 000.	on capita	i contract	ts ass at	

Freegold

Issued Capital in shares of 50 cents each: 116 179 121 ordinary and 1 431 787 (previously 890 871) S ordinary shares

The following are the results of the company and its wholly-owned operating subsidiary, Free State Consolidated Gold Mines

(Operations) Limited.			
	Quarter	Quarter	Year
	ended	ended	
	Mar. 1990	Dec. 1989	Mar. 1990
Gold			
Area mined – m ² 000		1 043	3 980
Toos milled 000		6513	26 055
Yield - g/t	4.31	4.25	4.32
Production - kg	27 727	27 710	109 851
Cost - R/ton milled		116.71	113.38
- R/kg produced	28 399	27 432	26 892
Price received on gold sales			
- R/kg	33 892	32 461	32 580
Metallurgical Scheme	2 200	4100	
Slimes treated – tons 000		4 162	16 531
Uranium oxide produced – kg Gold produced – kg		107 156	424 526
Acid produced - tons		544 98 636	2 178 396 303
red produced - tors	59 235	30 030	390 303
	R million	R million	R million
Turnover	978.5	931.5	3 737.1
Profit before taxation	192.8	157.9	762.1
Provision for taxation	8.4	7.9	64.7
Profit after taxation	184.4	160.0	697.4
Appropriation for capital			
expenditure after loan finance	96.5		350.4
Profit available	87.9	82.6	347.0
Dividends – including a fund dividend of 145 cents			
			046.1
per share			346.1
Increase in retained profit			0,9
Earnings per share - cents	75	71	295.0
Capital expenditure - R million	121.4	87.9	398.4
W.			
Note:		_	

Orders placed and outstanding on March 31 1990 totalled R102.9 million

HOLDING COMPANY OF FREEGOLD

shares representing 49.96 per cent (December 31 1989: 50.19 per cent) of the current issued share capital. As a result of the issue of new Preegold shares during the quarter Ofsil is no longer the holding company of Freezold.

PRODUCTION

As a result of a tornado which struck parts of Weltom on March 20 1990 some of the shafts and plants were without full electrical power for several days. As a consequence, gold production was adversely affected and damage estimated at R40 million was sustained to houses and surface installations.

Abridged preliminary profit announcements for the twelve months ended March 31 1990

Ofsil

	Tweive	_3
	monus ended	
	Mar. 1990	
		(Audited)
	F million	R million
Income from listed associate		
(1989: subsidiary) company,	173.3	258.6
Profit before taxation	173.1	257.9
Taxabon	0.1	1.0
Profit after taxation	173.0	257.8
Dividends - interim of 390 (1989; first		
interim – 311) cents per share		
paid on December 15 1989	87.8	70,0
 1989: second interim - 418 	-	1
cents per share	-1	94.1
final 378 (1989: 416) cents per	- ! (-
share payable on or about	11	
June 15 1990	85.1	93.6
Increase in retained profit	0.1	0.1
Earnings per share - cents	768	1 146
As a result of the issue of 540 916 new Fre	egold shares	during the
quarter ended March 31 1990, the company		
March 31 1990 was 49.96 per cent (March 3		

Welkom

issued Capital: 35 350 937 ordinary shares of 50 cents each

	Twelve months ended Mar. 1980	Eighteen months ended Mar. 1969 (Audited)
	R000	R000
Income from listed investments	70 703	105 320
Profit before taxation	70 272	104 734
Taxation,	10	19
Profit after taxation	70 262	104 715
Dividends - interim of 100 cents (1989; first interim - 80 cents per share (paid on		
December 15 1989')	33 351	28 281
cents per share – final of 98 (1989:108) cents per share payable on or about	-	38 179
June 15 1990	34 644	38 179
Increase in retained profit	267	76
Earnings per share - cents	199	296

Dividend declarations

Final dividends

On Thursday, April 19 1990, final dividends for the year ended March 31 1990 were declared in South African currency payable to holders of the following companies' ordinary and S ordinary shares:

	4	
Сотрапу	Dividend number	Cents per share
Ergo	23	55
Freegold	70	145
Oísii	9	378
Welkom	66	98

Last day to register for dividends (and

for changes of address or dividend Friday, May 11 instructions) Registers closed from Saturday, May 12 Saturday, May 26 to (inclusive) Ex-dividend on Johannesburg and London stock exchanges Monday, May 14

Currency conversion date for sterling payments to shareholders paid from Monday, May 14 Dividend warrants posted Thursday, June 14 Friday, June 15 Payment date of dividends on or about Rate of non-resident shareholders' tax 15 per cent

Share warrants to bearer

Holders of share warrants to bearer issued by Freegold and Ofsil are notified that their dividends are payable on or after Friday. June 15 1990, upon presentation of coupons marked "South Africa" and No. 9 on the side reflecting the share warrant number, at the offices of First National Bank of Southern Africa Limited, Stock Exchange Branch, Diagonal Street, Johannesburg, South Africa; Union Bank of Switzerland, Bahnholstrasse 45, 8021 Zürich, Switzerland; Credit du Nord, 6 and 8 Boulevard Haussmann, 75009 Paris, France; and Banque Bruxelles Lambert, 24 Avenue Marnix. 1050 Brussels, Belgium, only. Coupons must be left at least four

The full conditions relating to the dividends may be inspected at the Head and London offices of the companies and the transfer

By order of the boards ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED

per: C.R. Bull Senior Divisional Secretary

1. Unless otherwise stated all results are unaudited.

2. The increase in share capitals during the quarter resulted from the issue of shares to Anglo American Corporation of South Africa (AAC) to linance the acquisition of AAC shares for distribution to employees who participate in The Anglo American Group Employee Shareholder Scheme.

3. All companies are incorporated in the Republic of South Africa. 4. The unabridged reports will be posted to members, debenture and option holders, and to persons on the mailing lists. Copies of the unabridged reports are available from the Transfer

Secretaries and the Head and London Offices.

TRANSFER SECRETARIES Consolidated Share Registrars Limited lst Floor, Edura 40 Commissioner Street Johannesburg 2001 (PO Box 61051, Marshalltown 2107)

Barclays Registrars Limited 6 Greencoat Place London SWIP IPL

Johannesburg April 19 1990

HEAD OFFICE

44 Main Street lannesburg 2001 (PO Box 61587,

LONDON OFFICE

40 Holborn Vladuct

WATMOUGHS (HOLDINGS)

- ▶ High quality colour supplements, magazines, security and fine art printing achieved excellent growth.
- Varnicoat meets profit target and is successfully integrated into the Group.
- ▶ Long time association with Christies International leads to investment in their fine art printing company.

Results for the year to 30th December

	1989	1988	
Profit before tax	£10·2m	£6-8m	Up 49%
Turnover	£86-3m	£59.9m	Up 44%
Earnings per share	35-65р	26·72p*	Up 33%
Dividend per share	10-25p	8-23p*	Up 25%
•			

*Adjusted for increased capital (1 for 4 rights issue)

Patrick Walker, Chairman, said:

'We believe that 1990 will be another year of opportunity and

The annual report and accounts have been posted to shareholders and copies are available from the Company Secretary. Watmoughs (Holdings) PLC, Jason House, Hillam Road, Bradford, West Yorkshire BD2 IQN.

This advertisement is issued in compliance with the requirements of the Conneil of The International Stock Exchange of the United Kingdom and Republic of Ireland Limited (The Stock Exchange"). It does not constitute an offer or invitation to the public to subscribe for or to purchase any securities. Application has been made to the Council of The Stock Exchange for all the ordinary shares of £1 each in the Company in issue and the new ordinary shares of the Company to be issued under the rights issue to be admitted to the Official List, It is expected that dealings in such shares will commence on 27 April 1990.

NORTHERN INVESTORS COMPANY PLC

(Incorporated in England and Wales under the Companies Acts 1948 to 1981 - Registered Number 1822966)

INTRODUCTION BY **WISE SPEKE LIMITED** RIGHTS ISSUE

of 1,241,750 ordinary shares at 200p per share

SHARE CAPITAL

25,000,000

Issued and proposed to be issued by way of rights

£3,725,250

Nonhen investors Company PLC was established in 1934 to provide long-term finance for unquoted compan of England. It is managed by Northem Venturs Managers Limited, a member of IMRO.

Listing Particulars relating to the Company are available in the statistical services of Easel Financial Limited

opies of the Listing Particulars may be obtained during normal business hours up to and including 24 April 1990 from the Company monoposensets Office, The International Stock Exchange, 46-50 Finsbury Square, London, ECZA 1DD, and during nom ours on any weekday (Saturday and public holidays excepted) up to and lockeding 4 May 1990 (both dates inclusive) fro agistawed office of the Company at Northumberland House, Princess Square, Newcastle upon Tyne, NE1 SER and from:

Wise Speks Limited

Cutier House 3b Devenshire Square on EC2M 4AY

Commercial Union House 39 Pilgrim Street reastle upon Tyne NE1 6RQ 20 April 1990

Stockbrokers to the Company and to the listing



for the information of the shareholders of Naamioze Vennootschap DSM Incorporated in Heerlen, the Netherlands

Dividend 1989

Notice is hereby given to shareholders that a dividend for the year 1989 of NLG 8.00 per share of NLG 20.00 nominal will be paid as from 2nd May, 1990 against presentation of coupon no. 2. An interim dividend of NLG 1.60 per share of NLG 20.00 nominal has already been declared and was payable from 31st August, 1989.

All dividends will be subject to deduction of withholding tax of 25%. Coupon no. 2 may be presented as from 2nd May, 1990 at the office of the Company's Paying Agent in the United Kingdom:

> S.G. Warburg & Co, Ltd. Paying Agency, l, Finsbury Avenue London EC2M 2PA

from whom claim forms may be obtained. United Kingdom income Tax will be deducted at the rate of 10% unless claims are accompanied by an affidavit.

Withholding tax deducted in excess of 15% is recoverable by United Kingdom residents. The Company's United Kingdom Paying Agent will, upon request, provide the appropriate form for such recovery.

> Board of Management Heerlen, April 18th, 1990

FLEMING JAPAN FUND Société d'Investissement à Capital Variable Registered Office: 45, rue des Scillas, Howald Luxembourg

R.C. Luxembourg B 8392 The shareholders are hereby convened to attend the ANNUAL GENERAL MEETING to be held on Wednesday, 9 May 1990 at 3.00 pm at the registered office of the company, with the following agenda:

- Agenda

 1. Submission of the reports of the Board of Directors and of the 2. Approval of the financial statements for the year ended 31 December
- Discharge of the Directors and of the Auditors in respect of their dutes carried out for the year ended 31 December 1989.

 Election of Directors and the Auditors for a new term of one year. Directors' remuneration.

 Miscellaneous business as may properly come before the Meeting.
- Resolution of the agenda of the Annual General Meeting will require no quorum and will be taken at the majority of the shareholders present or

In order to be valid proxy forms duly completed must be received at the registered office on 4 May 1990 at 5.00 pm at the latest.

SUNBELT HOLDINGS S.A.

Registered Office, 7 Rue Pierre d'Aspell 1142 Luxembourg R.C. Luxembourg B 18113 NOTICE TO THE INARCHOLDERS

Following publications of 3rd and 12th January 1990 and the Extraordinary General Meeting of 22nd January 1990 of the shareholders when it was resolved to apply for a delisting of the company's shares from the Lunembourg Stock Evchange; notice it hereby given to shareholders that delasting will become effective at close of business on Friday 27th April. During a period of one year thereafter shareholders wishing to sell their shares may, but not must, refer to the company for assistance in finding a purchaser.

The Board of Directors.

UK COMPANY NEWS

Higher margins and existing stores growth behind rise to £10.5m

Wm Low meets City forecasts

By Maggie Urry

WM LOW, the Dundee-based recently in abortive discussions with Isosceles to buy a package of Gateway stores, has revealed first half profits at the top end of analysts' expectations.

In the 28 weeks to March 17, pre-tax profits were £10.5m, a 28 per cent increase over the previous £8.2m. Sales were 18 per cent up at £185m.
The profit gain came

through strong volume growth in existing stores and higher margins. Mr Christopher Blake, chairman, said "current trading remains buoyant" and he expected "another successful year's receits" results.

Mr James Millar, managing director, said the results were a continuation of the work the group had been doing and showed that even without having national scale "we can

do the job."

He said that he was disappointed not to have bought

IN SPITE of the mortality rate being below expectations

throughout most of 1989, Great Southern Group lifted pre-tax profits from £8m to £8.5m for

Turnover of this USM-quoted funeral director rose 19 per cent to £22.13m (£18.61m) while

trading profit surged 40 per cent to £4.92m (£3.51m), with margins increasing signifi-cantly to 22.2 per cent (18.8 per

the package of 81 stores from Isosceles, some of which would have been sold on, but that the group had no plans to merge with another company. Operating margins rose to 6 per cent compared with 5.2

per cent in the first half of the

previous year and 4.1 per cent in the year before that. Mr Millar said that the same rate of growth in mar-gins could not continue and that in future growth in turn-over would be the driving force behind profit growth.

The group plans to spend £30m or more in each of the current and next financial years on developing new stores. This will "sustain our commitment to strong organic growth," said Mr Hinke.
Of the 18 per cent sales rise,

8.7 per cent came from sales volume gains in like-for-like stores, with new stores contributing a further 4.3 per cent of sales growth, and inflation 5 per cent.

Mr James Smillie, chairman.

said funeral services provided

23.57m (£2.07m) of operating profit, ancillary services £339.000 (£453,000), and crema-

toria and cemeteries film (£981,000).

conditions permitting, property disposals in hand or available through further rationalisation

Earnings for 1989 increased

to 19.51p (9.67p). The dividend is held at 4p with a final of

Miskin checked by

property slowdown

improvement in pre-tax profits

for the year to end-January

lower turnover of £6.8m

Directors said that the slow

sales of residential property had affected the profit levels of that division and would do so particularly in the first half of

contracted, turnover would

increase considerably in the construction and building divi-

As forecast, a final dividend

(£7.02m).

written off.

The increase, from £523,612 to £559,393, was achieved on

The interest charge was up

William Low Share price (pence) 300 280

89 90 1988 Operating profits were 35 per cent up at £11.1m, but there was an interest charge of £590,000 (nil) relating to the development spending. A further £639.000 (£360,000) of interest was capitalised.

180 📆

Earnings per share, fully diluted, rose 31 per cent to 13.18p and the interim dividend is increased by 19 per

should contribute to the reduc-

tion this year, Mr Smillie

Adverse market conditions

prevented the placing of shares to raise the £2m deferred con-sideration for TH Sanders, and

Trading levels since Decem-

ber had increased significantly - due partly to the more nor-

cent to 2.5p (2.1p).

S COMMENT Low has again turned in some fine figures, but the market response seemed grudging. leaving the shares unchanged at 314p yesterday. However, the shares have risen 8 per cent or so since the talks with Isosceles broke down at the end of March and fears of a rights issue evaporated. While the market perceives a need for Low to take a big leap, it is nervous of Low actually making one. Low has plenty of growth to come from its ambitious store opening programme, although this will introduce gearing to the balance sheet, to the tune of about 30 per cent by the year end, and interest charges to the p and l account. And the days of repeated, large margin gains have to be coming to an end. Even so a prospective p/e of around 11.7 on a pre-tax forecast of £21.3m (£17.6m), is

hardly excessive.

mal mortality rate - but also to the benefit of further margin improvements in

the core and acquired busin

Chosen Heritage, the pre-arranged funeral scheme, had

sold a total of 21,000 plans with

Earnings came to 16.9p (15.6p or 19.1p including exceptional

item). The final dividend is 5.4p for

had received "some excellent contracts" in the last month,

the largest being in excess of

\$22m from the Boeing Corpora-

tion for power and free auto-

The rationalisation plan

been announced.

Over 1 up to 2

Over 2 up to 3. Over 3 up to 4. Over 4 up to 5.

Over 7 up to 8

a face value of over £13m.

a total of 8p (7p).

rights for Northern **Investors**

By Ian Hamilton Fazey. Northern Correspondent

Listing and

NORTHERN INVESTORS, the successful regional venture capital fund set up in Newcastle-upon-Tyne in 1984, is to be introduced to the Stock Exchange next Wednesday.

Dealings will start a week

today. The company already has 120 shareholders and does not need to invite subscrip-

The full listing will be immediately followed by a one-for-two rights issue aimed at raising a net £2.3m for further investment in unquoted companies in the

north-east. The 1.25m new shares will The 1.25m new shares will be offered at 200p and most institutional shareholders have already told Wise Speke, the stockbroker underwriting the issue, that they will take up their rights.

Leading shareholders include British Gas, ICI, Vaux Group, South Tyneside and Cleveland County council pension funds, and Cookson.

pension funds, and Cookson. Most of the 70 private investors are Wise Speke cli-

ents. Northern Investors started with £5m of share capital raised mainly from locallybased companies, pension funds, other institutions and private investors. Mr Michael Denny, formerly regional director of the National Enterprise Board, became

managing director.

By the end of March this year net assets had grown to 27m and included investments in 31 companies.
The compound pre-tax

Columbia makes printer ribbons and specialist coated products for use on computers internal rate of return on long-term investments has been about 25 per cent a year during the company's lifeand office equipment. It supplies major companies in the security printing, Auto ID and office equipment markets.

FKI also amnounced that it had received "some excellent."

Northern Investors will be classed as an investment company by the Stock Exchange but will have investment trust status with the Inland Revenue so that It will have no tax liability on gains from future realisations of investments.

The flotation is a northern

milestone in the development of regional venture capital funds in Britain, which hardly existed in 1984. Sumit, a Birmingham fund, has already floated.

that had to be met by cash. The Richmond Hill property had not yet been sold for resi-64 per cent to £1.37m. Borrowings were some 23m higher than anticipated, but market dential development.

Great Southern advances to £3.5m

Liberty up nearly £1m to £7.42m

A SUCCESSFUL year in converting and wholesaling enabled Liberty to raise pre-tax profits by nearly £1m to £7.42m in the 12 months to January 27

1990. That success offset reduced profit in UK retailing, which was affected by disruption to transport services and the economic climate, directors

The division's trading profit dropped to £1.96m (£2.82m) on turnover 12.5 per cent ahead at £52.6m, some 4 per cent of which came from new branches.

Group turnover rose 17 per cent to £85.15m (£72.76m). Barnings worked through at 26.32p (24.39p) and the final dividend is 4.55p for a total of

5.95p (5.04p).
Trading profit in converting and wholesaling moved up to £4.64m (£3.37m). Exports from the UK rose 38 per cent; in its first full year Liberty Japan produced excellent

Printing contributed £926,000 (£539,000). Fabric printing in France improved substantially. Demand for printing and dyeing was strong throughout the

In the current year retail sales and orders in the wholesale and printing companies had shown an encouraging improvement, directors

Silvermines more than doubles to L£7m

Although Silvermines Group increased manufacturing earnings by 35 per cent in 1989, an upsurge in investment income more than doubled the overall pre-tax profit from I£3.22m to I£7m (£6.82m).

Investment income came to I£4.73m (I£248,000), the main contribution stemming from the sale of the shareholding in Tuskar Resources. Operating profit in engineering and elecronics rose to L£5.76m Mr John O'Neill, chairman,

said in the current year order

April 20, 1990

intake and invoiced sales for manufacturing were shead of expectations, and showed a sig-S Daniels confident despite bigger loss nificant increase over 1989 for the first quarter. The acquisition of Muirhead Vactric Components effectively

NEWS DIGEST

S Daniels, a supplier of food and drink products, is confi-dent of a change in its fortunes for the current year after doubled the size of the electrical and electronic division and was expected to reporting an increased deficit The pre-tax loss rose from make a significant contribu-

£281,000 to £420,000, on turn-over up to £38.21m (£35.65m). Mr Paul Daniels, chairman, Income from property and developments through the Newport subsidiaries said the restructuring of the group was now largely com-plete, with ingredients and should further enhance pro-

retail supplies as its two principal trading divisions.

With an increased contribution from new businesses and a strong balance sheet, he was

bring a turnround in results after two extremely difficult In view of the confidence in the changed group, the final dividend is held at 1.25p for an Miskin Group, the property and transport services group which came to the USM a year ago, achieved a 14 per cent

unchanged total of 2.5p. Losses per share rose to 5.5p (2.34p). Trading conditions for traditional businesses remained as difficult as in 1988. But the board implemented the first stages of the strategic plan to end the poor performance of some group operations and move into related higher mar-

gin areas. The most significant step was the sale of the canned food division which gave an extraor-dinary profit of £2.7m. It also led to an improvement of over 25m to the cash position and significantly enhanced the bal-

the current year.

However, current prospects
were favourable, they said, and
it was anticipated that with
the amount of work already acquired Kluman & Balter, a bakery ingredients supplier, and the chairman said profits increased substantially, more

of 1.375p is proposed. Earnings per share fell from 6.9p to 4.5p or from 5.1p adjusted for losses brought forward and confectionery services, was purchased and was expected to provide significant profit recoverable tax previously

Emess chairman's earnings rise 48%

FKI, the Halifax-based electri-cal equipment and engineering group, has acquired Columbia Emess, the lighting and electricash and loan notes.

FKI spends £6m on

International for some £6m in

NOTICE TO HOLDERS OF VARIABLE RATE NOTES 1. NOTICE IS HEREBY GIVEN in connection with the variable rate note issues listed below that each of the relevant issuers has agreed, with effect from 30th March, 1990, to the termination of the appointment of Merrill Lynch International & Co. ("MLICO") as remarketing underwriter under such issues and to its replacement (with the approval of The Law Debenture Trust Corporation p.L.c. or The Law Debenture Corporation

\$100,000,000 Series A Variable Rate Subordinated Notes 1998 \$50,000,000 Series B Variable Rate Subordinated Notes 1998 £50,000,000 Series C Variable Rate Subordinated Notes 1998

Alliance & Leicester Building Society

TSB Group plc

National Westminster Bank PLC U.S.\$500,000,000 Undated Variable Rate Notes

MLIL, and MLIL will give effect thereto.

variable rate note issues listed below that each of the relevant

Alliance & Leicester Building Society \$50,000,000 Subordinated Variable Rate Notes 1998

National Westminster Bank PLC U.S.\$300,000,000 Variable Rate Capital Notes 2008 Merrill Lynch International Limited as successor agent bank

£100,000,000 Variable Rate Subordinated Notes 2003 Citibank, N.A. as successor agent bank

Subscription Price before adjustment Yen 1,053.60 Subscription Price after adjustment Yen 957.50

IDEC IZUMI CORPORATION 10-40, Mikunihonmachi I-chome, Yodogawa-ku, Osaka 532, Japan

ance sheet. In September 1988 Daniels

than fullfilling expectations. In February this year Kandy-man, a supplier of pic 'n' mix

further expansion

cal accessories group, paid Mr Michael Meyer, chairman, £152,000 in 1989, 48 per cent more than the £103,000 he received in the previous year.

This is its fifth recent acquisition. Together, they have annual aggregate sales of £20m and will all be contributing to The company's pre-tax profits rose by 24 per cent in 1989, but earnings per share increased by only I per cent. profits by the second half of this year.

Notice to the Warrantholders of

IDEC IZUMI CORPORATION

U.S.\$35,000,000 2 3/8 per cent. Guaranteed Bonds Due 1992 with Warrants

to subscribe for shares of the common stock of IDEC IZUMI CORPORATION Pursuant to Clause 4 of the Instrument and Condition 11 of the Terms and Conditions of the Warrants, we hereby notify as follows:

1. The Board of Directors authorized on March 30, 1990 to effect a free distribution of shares at the rate of 0.1 new shares of each one share beld as of April 20, 1990 Tokyo Time (the record date).

2. Accordingly, the subscription price of the above mentioned Warrants, as given effect to the carried forward decrease in the subscription price of less than one yen, will be adjusted pursuant to Clause 3 of the Instrument and Condition 7 of the Terms and Conditions of the Warrants effective as from April 21, 1990 Tokyo Time.

within Babcock Industries Inc was progressing well with a rapid manpower reduction of 500 nearing completion. The closure of several factories had PUBLIC WORKS LOAN BOARD RATES Effective April 18 15 14³8 14 13³8 13³8 13¹8 13¹8 14%, 14%, 14%, 14, 13%, 13%, 13%, 14-12 14-14 15-76 13-12 13-15 13-16 13-16 13-16 13-16

*Non-quota loans B are 1 per cent higher in each case than non-quota loans A. †Equal instalments of principal. †† Repayment by half-yearly annuity (fixed equal half-yearly payments to include principal and interest). § With half-yearly payments of interest only.

p.i.c., as the case may be, as trustee with respect to the relevant issue) by Merrill Lynch International Limited ("MLIL").

Lloyds Bank Pic

National Westminster Bank PLC U.S.\$300,000,000 Variable Rate Capital Notes 2008

\$100,000,000 Variable Rate Subor

MLICO and MLIL have agreed that any notice or notification given by a holder of Notes to MLICO on or before the date of this notice or, if a Remarketing Period (as defined in the relative Remarketing Agreement) has commenced, during such Remarketing Period shall be as valid as if it had been given to 2. NOTICE IS ALSO HEREBY GIVEN in connection with the

variable rate note issues fisted below that each of the relevant issuers has agreed, with effect from 20th April, 1990, to the termination of the appointment of Merrill Lynch International Bank Limited as agent bank under the relevant issue and to its replacement by the bank named beneath the title of such issue:

Bankers Trust Company as successor agent bank

TSB Group plc

National Westminster Bank PLC U.S.\$500,000,000 Undated Variable Rate Notes
Merrill Lynch International Limited as successor agent bank

Merrill Lynch International Limited, London on behalf of the issuers named above. 20th April, 1990

UK COMPANY NEWS

Losses cut to £2.42m and profits expected in 1991

Midland & Scottish calls for £149m to fund buy

By David Thomas, Resources Editor

Resources, the loss-making USM-quoted oil production company, is raising £149.2m by a rights issue to acquire the world's largest floating oil production facility. duction facility.

The announcement was made at the same time as reporting an after-tax loss for 1989 of £2.42m on turnover of £735,000. That compared with a loss in 1988 of £10.81m on turn-

over of £1.28m.
Prices of both classes of shares closed at 178p, down 23p

The acquisition will be achieved by the purchase of Tortin Investments Limited, a Guernsey-based company in which four of Midland & Scottish directors have a 68.3 per cent interest. Midland is paying a maximum £155.9m, of which £120.9m will be in cash and the balance in non-interest . bearing convertible loans. Six of Midland's eight direc-

tors have either a direct or indirect interest in Tortin and have not taken part in board discussions of the acquis-

The rights issue is unusually large for a relatively small company, while the structure of the deal is exceptionally complicated: "It's a very

ASTRA Holdings, the

munitions and fireworks maker, yesterday struck a sur-prise deal with Société Génér-

ale de Belgique to save PRB, the Belgian munitions maker which it bought last year, from

The agreement involves for-mulating a new industrial plan for PRB in the context of a concordat, which offers tempo-

rary protection from creditors. PRB's two main banks have

advanced new short-term

credit facilities to keep the business affect until May 4.

Yesterday's development

buys time so that a detailed solution can be found and allows tempers to cool after a

period of bitter allegations on

almost certain bankruptcy.

By Tim Dickson in Brussels and Jane Fuller in London

MIDLAND & Scottish unusual deal, but then it's a fields in the North Sea. very unusual company," one of Midland's financial advisers

> Midland is raising the cash by an issue on the basis of 11 new shares for 10 held. The balance of £28.3m not used for the acquisition will be used for

working capital.
Four directors who own 49.4 Four directors who own 49.4 per cent of Midland & Scottish through a private company, Midland & Scottish Group, have agreed to subscribe to the rights issue. No information was available last night on whether British & Commonwealth Holdings, which holds 19.8 per cent, would subscribe. However, Mr John Gunn, chief executive of R&C and a chief executive of B&C and a director of Midland, is sub-

Midland has one main asset at present, a 44 per cent interest in the Emerald field in the North Sea and the Ali Baba, a floating oil production facility, which is developing the Emer-

scribing for his relatively small

The acquisition of Tortin is intended to give it another asset shullar to the Ali Baba. These floating oil facilities are seen by some observers as central to attempts to boost the development of marginal oil-

Astra bought PRB from the La Générale subsidiary

La Generale subsidiary
Gechem last September, when
it thought the company was
guing to make a 22m profit in
1989. It has since alleged that it
mounthed a 12m love.
Belgium's commercial court
vasterday gave its blessing to

yesterday gave its blessing to the concordat procedure, but will only give its final consent on the basis of plans to be

drawn up by PRB in the next two weeks. These have to be agreed by two thirds of the

Assuming this is granted. Astra has agreed to drop its litigation threats.

PRB may well be hoping to

find a partner to continue the

business as a going concern, though a controlled break-up is

Tortin has one main asset, a contract with Fincantieri, the Italian state shipbuilding company, to build a semi-submersible floating production facility capable of processing 100,000 barrels of oil and handling 130m cubic feet of gas a day. The facility, which is being built in Genoa, is scheduled for delivery in September 1992. The contract has been valued

During 1989 Emerald devel-opment costs of £27.7m were capitalised, as will development costs incurred this year. Oil from Emerald will not flow until towards the end of 1990, after which Midland hopes to move into profit.

The company cannot pay dividends without the consent of the banks which funded the Emerald development and also of the Department of Trade and Industry which guaranteed the loans of the All Baba con-

It assumed its present form in January last year, resulting from ... Midland & Scottish Group's taking a controlling stake in Jehsens Drilling, an offshore drilling contractor the shares of which had been suspended on the USM for

thought to be another option.

La Générale made it clear

that while it was willing to make a financial contribution

to the rescue, it would not be

taking a new equity stake in

Astra paid £1m for PRB's share capital and repaid more than £20m in inter-company

Mr Roy Barber, chairman of

Astra since early March, said the group would not have to

pay out a penny more as a result of the agreement. He had, however, hoped to do bet-

"I'm afraid a large part of the £21m has gone down the drain for the time being." This amount had been written off

Banks help Astra in rescue deal

pre-tax profits.

Booker's profits went up by
15 per cent to £90.5m and sernings by less than 112 per cent to 37.1p. Both increases fell short of the threshold required to trigger the bonus.

BOARD MEETINGS

Trust. International Investment Trust Company of Jersey.

Planin- Barry Starquest. Children's Medical Charley Investment Trust, Farnet Stactonics.

Govert Oriental Investment Trust, Ketson,
Polymert Merchantschaft.

Pearson chairman receives **55%** rise

By Clay Harris

LORD BLAKENHAM, chairman and chief executive which owns the Financial Times, was paid £465,000 last year, a 55 per cent increase over the £299,000 he received in 1988. Pearson said a large, but unspecified element of the rise was performance-linked.

Meanwhile, Mr Jonathan Taylor, chief executive of Booker, took a pay cut of nearly £80,000 in 1989 because the agribusiness and health

products group only barely improved earnings per share.

Pearson directors' bonus payments are also linked to growth in earnings per share. The board's remuneration committee sets a target at the beginning of each financial year based on the outlook for the economy and the company. If it is exceeded, directors receive additional pay.

In 1989, Pearson's eps rose by 20 per cent to 67p. Other directors also benefited from large rises. The next three highest paid directors after Lord Blakenham received between £355,000 and £400,000

esch, sgainst a range of £230,000 to £295,000 in 1988. At Booker, Mr Taylor's sal-ary fell from £228,415 to 2178,791 because he received no performance-related pay.
Normally, up to 60 per cent of
his salary can be composed of
bonus payments linked to
growth targets in earnings and

Acquisitions boost Albert Fisher

ANOTHER STRING of acquisitions helped Albert Fisher Group, the food distributor and processor, lift pre-tax profits by 53 per cent, from £19.95m to £30.5m, in the six months to February 28 1990. Underlying organic growth was 23.6 per cent.

Fisher mounted an unusu-ally structured £180m rights issue and placing towards the end of the half-year, which left it with about £80m net cash for further acquisitions and prod-uct development.

It was underwritten by Cor-porate Partners, a US invest-ment fund, which also took

The arrangement prompted criticism from some shareholders. But Mr Tony Millar, chairman, said yesterday: "It has now been recognised that we did something different for a good reason", which was to raise the funds without risking the vagaries of short-term mar-ket fluctuations.

Mr Millar said one of Fisher's current priorities was to build up business in better-margin value-added products in the US. These, chiefly pre-cut salads, accounted for only 10 per cent of US sales while in

Burope value-added products made up about 60 per cent. In Europe, Fisher was keen to extend the range of products made by Holco, a West German company acquired in January which processes asparagus and

Mr Millar said companies acquired during the half-year all made useful contributions. On a like-for-like basis, European businesses produced profits of £18.43m (£15.3m) on turnover of £37.52m (£26.49m). North America made £12.02m (£9.34m) on sales of £22.15m (£20.11m). Head office expenses

took £80,000 (£300,000). European fresh produce businesses made £5.34m (£4.55m). There was some shortfall in fruit sourced from Spain because of heavy rains in citrus growing areas. Food processing and distribution contributed £13.09m (£10.75m). Within this, there was some pressure on margins in UK frozen food operations.

In North America there was a good recovery at Ziff, the paper and plastics subsidiary, after staff cutting and reorgan-

CRH said the acquisition,

substantially financed by non-recourse debt, was expec-

ted to make a positive contri-

bution to earnings in the cur-

Last year, the US had accounted for just over a

quarter of the group's pre-tax profits of 1280.57m. HGP has about 12 per cent

of the \$800m US architectural

market which includes secu-

Mr Don Godson, chief exec-

utive of Oldcastle, said "HGP

provides a significant pres-

ence in a construction mate-

rials sector which is less

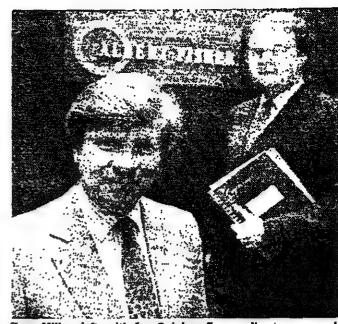
cyclical and provides better access to higher value-added

repair maintenance and

improvement markets than

rent year.

rity glass.



Tony Millar, left, with Ian Quinlan, finance director: unusual rights issue left group with £80m for continued expansion

Group turnover expanded by (£368.95m). Earnings per share rose from an adjusted 3.72p to

4.59p, and the interim dividend 35 per cent at £496.64m is stepped up from 1.25p to

CRH in joint venture for US glass business

By Andrew Taylor, Construction Correspondent

CRH, the international by bank borrowing at interest buildings materials group rates currently at 11 per and one of the Irish Republic's biggest companies, has CRH said the acquisition. joined with a group of Georgia investors to pay \$100m (£61m) for a half share in a US architectural glass busi-

ness. The 50 per cent holding has been acquired in the architectural glass division of HGP Industries, which operates in

The stake has been acquired by Oldcastle, a CRH subsidiary, and Georgia Investors, a private family investment group. The Irish group put up \$30m of the purchase price which includes warrants to

allow the group to increase its half share in the 50 per cent stake. The remainder of money.

All-round improvement lifts Crean to I£21.55m I£21.55m (£21.03m) derived

JAMES CREAN. Dublin-based industrial holding company with interests in electrical products, aircraft leasing and food and beverages, yesterday announced a 28 per cent increase in profits for

Directors said that all the group's principal subsidiaries, including Inishtech, had produced satisfactory sales and profits performances, as did International Aircraft Services, in which the group holds 30.67

At the pre-tax level group

from external sales of I£184m (l£134.6m). Income from related companies I£4.66m (I£4.7m). After tax of I£3.94m (I£2.28m) and minorities of I£743.000 this time, fully diluted earnings per

share came out at 58.3p debit of IE113,000 (IE659,000) and a goodwill charge of IE1.01m (IE299,000), which has been excluded from the earn-

ings calculation.
The proposed final dividend of 10.4765p makes a total for the year of 17.6265p (15.8125p).

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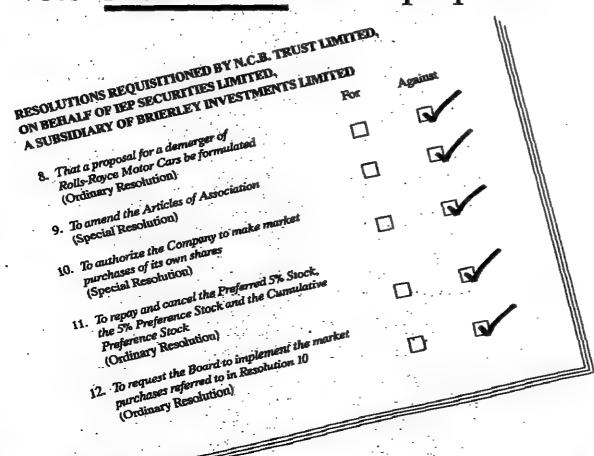
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SOLID

except for \$1m from Georgia many of our existing busi-investors, has been provided nesses."

building and design and build contracting

FINANCIAL HIGHLIGH			
1989 £M	1988 £M		
104.4	, 103.6		
32.5	27.5		
6.6	7.2		
	1989 £M 104.4 32.5		

n the difficult trading conditions of 1989 Hunting Gare achieved a pre-tax profit of £6.6 million, slightly down from the £7.2 million for the previous year.

Bearing in mind the dramatic downturn in the housing market, a slowing of demand for commercial properties and the generally excessively high interest rates, this is a result that reflects well on our management. Although the economic climate is less than promising, with a well-balanced spread of activities, I am confident that Hunting Gate will respond positively and continue its solid progress."

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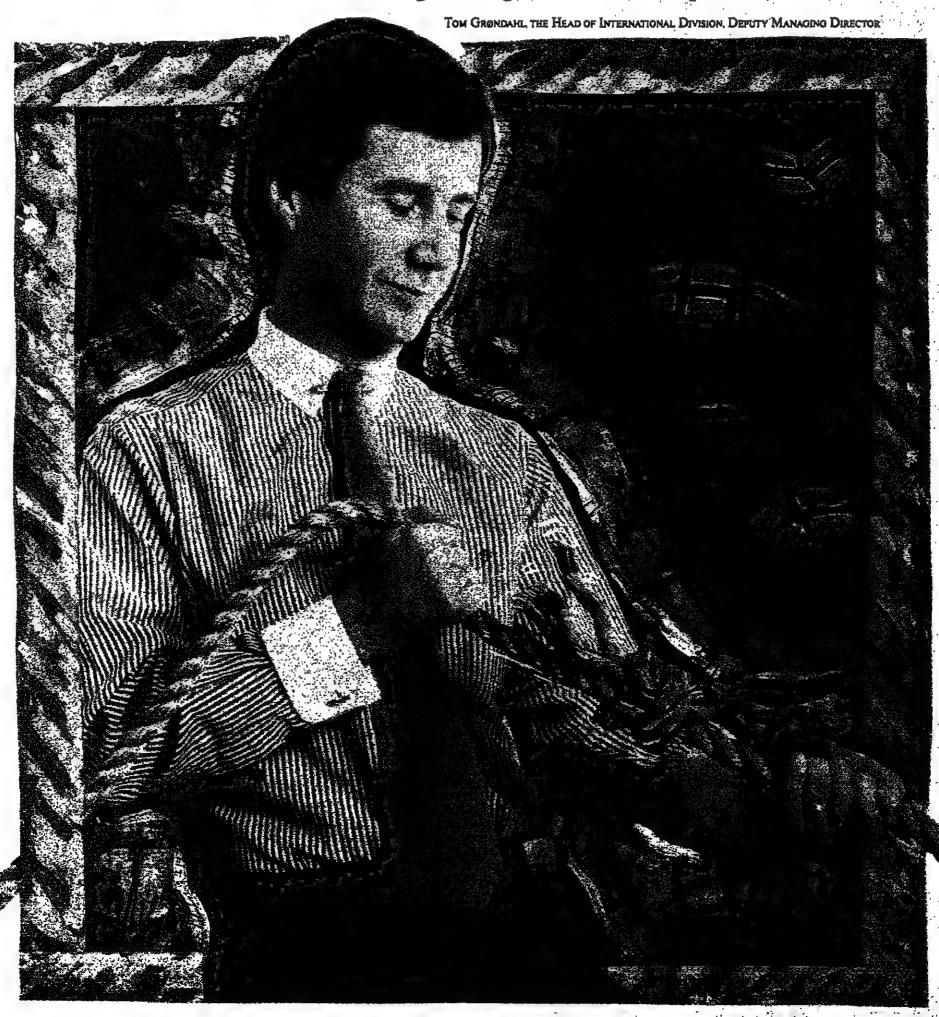
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UK COMPANY NEWS

Managing director leaves after 20 years

Major staff departures hit Ivory & Sime

By David Waller

THE MANAGING director, the investment director and four senior fund managers yesterday resigned from Ivory & Sime, the former stalwart of the Edinburgh investment resourcement senior

ment management scene.

Mr David Ross, the managing director who has worked for Ivory & Sime for more than 20 years, is leaving with the four fund management collegates to set up as independent. colleagues to set up an inde-pendent, unquoted Scottish investment management

Mr Graeme MacLennan. appointed as investment director just two years ago, is leaving for different reasons and the timing of his long-planned departure is a matter of convenience, according to Mr Richard Carswell, market-ing director.

Mr Richard Carswell, marketing director.

The abrupt departures will inevitably come as a blow to the credibility of a company which was beset by turmoil at the senior management level for most of the 1980s. Rivals at other Edinburgh fund managers declared it "a sad day for Scotland". sad day for Scotland".

company's past problems, acknowledging that pension fund money built up to £thn between 1979 and 1985 fell to £500m between 1985 and 1988. He was then emphatic that management stability had been achieved at last.

Yesterday Mr Ross explained that over the weekend he had gone to speak to

end he had gone to speak to the four fund managers after hearing that they were plan-ning to set up their own busi-

His duty as managing director was to ask them to resign, he said. But they were good friends and the prospect of working for a private rather than a public company was enticing, so he saked to join them and earlier this week offered his resignation to the board along with the

others. He added said that no Ivory & Sime clients had been contacted and the five would have to build the new business up from scratch. Mr Carswell said that Mr MacLennan, who had himself

defected from the nearby Talking to the Financial Edinburgh Fund Managers, Times only last month, Mr Ross was frank about the his job as investment direc-

for Runciman as holding nears 50%

tor. According to Mr Car-swell, this had been recog-

nised some time ago by both Ivory & Sime and Mr MacLennan and it seemed

sensible for him to leave

at the same time as the

at the same time as the others.

Mr Ross, who started at Ivory as an office boy, was appointed as the firm's first managing director in 1988.

Mr Carswell said yesterday that the company's investment strategy would be unchanged. Since 1988, the company has managed to rebuild its pension fund monies back to previous levels by

les back to previous levels by the aggressive pursuit of

overseas fund management business, a result of the com-

pany's novel strategy of buy-ing overseas fund managers or opening its own offices

or opening its own offices over the state of the company's shares, said he had no intention of selling them.

Ivory & Sime is owned 25 per cent by Ensign Trust, 15 per cent by Sumitomo Life Assurance and some 30 per cent by staff. None of the other people departing has a

other people departing has a significant stake.

THE BID battle at Walter Runciman, the shipping and security equipment group, intensified yesterday when Avena, the Swedish diversified Avera, the Swemsn diversined company, again increased the terms of its hostile offer and snapped up more shares in the market to bring its holding within sight of 50 per cent.

But Viscount Runciman, chairman, amounced his com-

caarman, amounced his com-pany had started talks with a third party that might or might not lead to an improved offer being made.

Avena improved its cash

offer, which is now final, by 65p to 690p per share. There is also a 9p dividend entitlement to value the company at about 263m. It now claims 46.7 per cent of the shares, including an 8.4 per cent block sold by Scot-tish Amizable Investment Man-

agers yesterday.

The move by Scottish Amicable, a long-term investor, drew dismayed criticism from Viscount Runciman, who said it had made the sale before talking to him. He said "I was extremely surprised that they did not telephone me before they sold, as we had arranged." Runciman urged its other

while merger discussions with the third party, which might or might not lead to a higher offer, got underway. Viscount Runciman said an initial talk some weeks ago had only yes-terday transformed itself into serious negotiations.

Avena's new terms mark its

second improvement this drew acceptances in respect of a less than I per cent of the shares, apart from those held by the National Rivers Authority. This investor was believed to the seller of a 4.4 per cent stake which was also sold to

Avena vesterday.

Some 30 per cent of the shares in hands related in varying degrees of closeness to the founding Runciman family remain uncommitted. A 15.6 per cent stake is held by Runciman (Trustees) but the balance is in the hands of individual

Viscount Runciman would not be drawn on the identity of the party but speculation focused on Scandinavian ship-ping companies with similar interests in the liquid gas car-riers, which Runciman operates as part of the Unigas con-

Avena raises terms | Sketchley breathes again as Compass takes the pressure off

By Andrew Bolger

SKETCHLEY, the beleaguered industrial services and cleaning group, last night escaped hostile takeover for the second time within seven weeks after Compass Group
effectively abandoned its bid.
Compass, the contract
cleaning and services company, said it did not believe it
would be in the interests of
Compass shareholders to revise its £88m offer to a level which would be likely to receive the support of the major institutional sharehold-ers of Sketchley. With Compass's shares clos-

ing down 5p at 305p, its all-pa-per offer valued each Sketchley share at 244p. Shares in Sketchley had closed unchanged at 265p before the Compass announcement

Godfrey Davis, the car deal-Godfrey Davis, the car dealing and laundry group, dramatically withdrew its £128m offer for Sketchley at the beginning of March after taking fright at its reduced profits forecast.

Sketchley shares had plunged 98p to 251p after Godfrey Davis withdrew its shares-and-cash offer, which dropped in value from from 380p to 350p nee share in the

aropped in value from from 380p to 350p per share in the course of the bid.

Mr Gerry Robinson, chief executive of Compass, said last night: "Having studied Sketchley for some years we were



Gerry Robinson: acquisitions only on terms which are in

as a white knight during the Godfrey Davis bid and were given the opportunity of a detailed look at the company.

"Following Godfrey Davis's withdrawal and the dramatic drop in the Sketchley share price, we saw the opportunity of acquiring the company on fair and reasonable terms. We are only prepared to acquire companies on terms which are in the interests of our own shareholders, and which will maintain and enhance the excellent prospects that Com-

Sketchley defended itself against the Compass bid by announcing the appointment of a new management team that its advising merchant bank, NM Rothschild, negotiated with for two weeks. Mr Majcolm Glenn had his resignation as chairman of Sketchley accepted hours after the Com-pass bid was launched.

The new managers are Mr John Richardson, a former managing director of Bond Corporation (UK) and chief executive of Hong Kong-based Hutchison Whampoa, and Mr Tony Bloom, ex-chairman and chief executive of Premier Group Holdings of South

Sketchley's management reshuffle, which includes a conditional agreement to grant conditional agreement to grant the new men a potentially lucrative share options pack-age, was supported by institu-tions which between them spoke for 34 per cent of the company's shares, Subject to shareholders' approval, both Mr Richardson and Mr Bloom will be granted

and Mr Bloom will be granted options to subscribe for shares amounting to 2.5 per cent of Sketchley's issued share capital. At the maximum subscription price of 265p, these would be valued at some £4.8m.

Hawtal Whiting motors back into the black

HAWTAL WHITING Holdings, the Essex-based vehicle engi-neering consultancy group, yesterday announced a return to profitability in 1989 as turn-over increased by more than 60

per cent.
Mr John Whitecross, chairman, reported pre-tax profits of £2.17m, against a loss of £862.000 in the previous 12 months. Turnover amounted to £49.7m (£30.88m).

Earnings per share emerged at 16.9p (losses of 11.4p). Mr Whitecross said that in view of whitecross said that in voicew of the group's return to profitabil-ity it intended to pay a 4p divi-dend. A nominal dividend of 0.1p was paid for 1968.

He attributed the improved

performance to growth in Haw-tal's operations world-wide, but engineering sector.

with North America playing a significant part. The region now employs 45 per cent of the Hawtal work force.

The company believes it is now in a strong position to take advantage of one of the most significant trends in the vehicle industry - the reduction of new model cycle times as low as three years, as vehicle manufacturers come under increased pressure in

the marketplace.
The increased frequency of the introduction of new models, and the greater variety of vehicles also expected to be produced, is expected to pro-vide an increasingly powerful boost to the critic consultancy.

Tilbury on acquisition

TILBURY GROUP, the UK another \$1.1m for land and construction company, yester-day announced the first of sev-eral acquisitions which Mr Michael Bottjer, its chief exec-utive, has said the group is

Tilbury, which last year defeated an unwelcome take-over bid from rival contractor Lilley, has acquired Clough Smith, a heavy electrical engineering contractor, for £7.75m.

buildings part of which are leased and occupied by Clough. Earlier this month, Tilbury said it was pursuing several acquisitions including one on the Continent. Clough Smith

Tilbury's pre-tax profits last

trail with £8.85m deal

By Andrew Taylor, Construction Correspondent

Tilbury has agreed to pay

year increased by 87 per cent. from £14.66m to £27.46m.

last year made pre-tax profits of fi. Im on sales of fl3.9m. Net assets in the last accounts were valued at f2.3m.

DIVID	ENDS	ANNO	MUNCE	D	
	Current payment	Date of payment	Corres - ponding dividend	Total for year	Total last year
Crean (James) 🛖fin	10.4765	-	9,3125	17.6265	15.8125
Caniels (S)fin	1.251	June 1	1.25 .	2.5	.2.5
Drayton Cons Tstint		May 31	3.75	-	15
Raher (Albert)Int		July 9	1.25	- '	2.75 .
rost Groupfin		4	-5.25	13	9.25
3t Southern §		June 8	4.7	. 8	7
		Aug 13	0.1	4 .	0.1
lawtel Whitingfin	3	June 6	28	4.5	4.1
nt Business Comfin	4.25	July 18	3.3	8	4.75
.epfin	4.55	May 31	4"	5.96	5.04"
bertyfin			2.1		d.5
nt (mW) wo.	2.5	June 4	gio I	1.875	
Viskin 9	1.375 -		2.6	1.015	2.6
tockfortfin	3.0 +4 e	July 9	2.5	4	4

Dividends shown pence per share not except where otherwise stated. Equivalent after allowing for scrip issue. You capital increased by rights and/or acquisition issues. \$USM stock, whileh currency throughout.

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YAMAICHI SECURITIES COMPANY, LIMITED By The Bank of Tokyo-Trust Company on Disbursement Agent

IN BRIEF

NORBAIN ELECTRONICS has conditionally agreed to acquire SEE, a distributor of closed-circuit television equipment for a maximum £1.49m cash. In the year to end-September, SEE achieved taxable profits of £282,000 on sales of £2.7m, Net assets were £133,000.

REALLY USEFUL Group: Offer by Jorraban to acquire shares not already owned by it has been validly accepted by holders of 3.21m RUG ordinary (9.7 per cent). Jorraban now owns 29,73m (89.5 per cent) RUG shares, including those owned by Mr Andrew Lloyd Webber.

VIBROPLANT has sold the waste disposal assets of Bath Plant Holdings to Drinkwater Sabey, a subsidiary of Attwoods, for £2.35m cash phis the assumption of approxi-mately £280,000 of imance lease

WATERGLADE INTERNA-TIONAL Holdings has acquired a freshold office building in Oporto, Portugal, for Essom. The building, comprising 500 sq m, is located opposite the Portuguese Stock Exchange. Company has also announced sale of two office buildings in Amsterdam to a local private company for Fl 3.5m.

"It would need a world catastrophe Rolls-Royce's surviva!"

ROLLS-ROYCE MOTORS Managing Director, Peter Ward

Rolls-Royce Motors -

A Strong Independent Company Rolls-Royce Motors enjoys the respect and admiration of the world's automotive industry. Despite the slowdown

in international car markets, worldwide sales of Rolls-Royce and Bentley cars increased by 24 per cent in the first quarter of 1990.

Outlook for future growth is excellent. Continued expansion into Europe, Asia, and the Middle East will reduce the importance of the US market and bring more balance to the sales profile.

The establishment of the Bentley marque has played a prominent role in this success. It now accounts for over 45 per cent of sales.

Rolls-Royce Motors has the power to stand alone - it has the resource and capability to succeed.

In the words of Peter Ward, Managing Director of Rolls-Royce Motors, "We have a £200 million, ten year investment programme, which we are proving capable of funding ourselves." Moreover, as an ungeared listed company it should have ready access to capital markets, allowing Rolls-Royce Motors to fund further investment initiatives when required.

IEP's demerger proposal would involve no change in management and no change in ownership. Continuity of the trade name is assured. The Rolls-Royce marque will continue to thrive.

Release this value - vote yes to IEP's resolutions and return the Blue Proxy card.

INCREASE SHAREHOLDER VALUE. DEMERGE ROLLS-ROYCE MOTORS.

Opec emergency meeting decision lifts oil prices

By Steven Butler

Oil PRICES staged a strong recovery yesterday after an ent that the Organisation of Petroleum Exporting Countries would hold an emergency ministerial meeting on May 2 in an attempt to lift

Mr Sadek Boussena, the Algerian minister who is Opec's president, said that the oil ministers would meet to "examine steps to take to arrest the degradation of the market and to restore prices" to the Opec level.

Mr Boussena is evidently referring to the \$18 reference price for an average of select Opec crudes, which are now going for closer to \$15. Prices have been driven down by a rise in oil stocks and a huge surplus of oil heading for mar-ket from the Middle East.

Announcement of the emergency conference came after Wednesday's steep fall in prices following a meeting between the oil ministers of Saudi Arabia, Kuwait, and the United Arab Emirates. Although the meeting produced vague pledges from Kuwait and the UAE to cut output, markets were unconvinced any significant action

would be taken.

After yesterday's announcement, however, markets more than regained Wednesday's

North Sea Brent crude for June delivery finished the day up 821/2 cents at \$17.121/2 in European trading. On the New York Mercantile Exchange, where prices have been most volatile, June futures for West Texas Intermediate crude were up 70 cents to \$18.79 in midday

Prices had begun to rise in advance of the Opec announce-ment on unconfirmed rumours that Saudi Arabia was about to make a large cut in its oil out-put. Saudi Arabia, Kuwait, and the UAE are each producing far more than their agreed Opec quotas.

The May 2 meeting, to be held in Geneva, is formally of Opec's eight-member market monitoring committee. How-ever, all 13 Opec members are planning to attend the meeting, which could take action to adjust Opec prices or produc-

The scheduled May 25 regular conference of Opec ministers has been postponed to

Malaysia agrees to join cocoa producers' group

By Lim Siong Hoon in Kuala Lumpur

MALAYSIA, the world's fourth biggest cocoa producer, has agreed to join the Cocoa Producers' Alliance (CPA). It is still considering the possibility of joining the International Cocoa Organisation (ICCO).

The CPA appears to be more important to Malaysia. Joining it wins political goodwill for Malaysia and provides it with a forum for discussions about a new ICCO agreement.

Mr_Lim Keng Yaik, Malaysia's Primary Industries Minister, earlier this month visited the Ivory Coast, the world's biggest cocoa producer, and Ghana, where he said he would recommend Malaysian participation in the international cocoa agreement to his government. Mr Lim seems, however. to be in no hurry to submit this recommendation.

"I'm not making a U-turn," he said, adding that further discussions with the local

cocoa industry were required. Underneath Malaysia's pro-crastination over the ICCO lies its conviction that the two-year extension on the agreement provides only a temporary reprieve in a depressed market.

Eventually, Mr Lim said, producers might have to act among themselves to remove the cocoa surplus by cuts in production and exports.

The extended cocoa agree ment contains no economic provisions. This might make Malaysia's participation easier, but it also made its membership academic, said Mr Lim.

He has asked CPA members to hold their next meeting in

 Malaysian cocoa production for the year to last September rose by 18 per cent from the previous year to 260,000 tonnes, according to estimates by the government's Federal Agricultural and Marketing Authority.

Brazil to resume its world sales of coffee

By John Barham in Sao Paulo

BRAZIL is to resume coffee exports today, after a month's suspension. Ms Zelia Cardoso de Mello, the Economy Minis-ter, approved on Wednesday new policies to deregulate cof-fee exports and eliminate

Most farmers and traders approved of the changes, saying a free market would reward efficiency and reduce the burden of red tape. "Brazil is one of the few countries that can produce coffee without needing government intervention, because we produce cof-fee in great volumes with con-siderable quality," said Mr Isaac Ferreira Leite, president of the Guaxupe coffee co-oper-

Under the new rules, coffee will be treated like Brazil's other commodity exports, such as orange juice or soyabeans, which are regulated by a department of the Economy Ministry. The government merely ensures that compa-nies' declared export prices are in line with the interna-tional and domestic markets, to prevent exchange fraud.

Coffee shipments virtually haited after the new govern-ment imposed drastic anti-ifiation measures on March 16. The same day, it decreed the closure of the Browllan Coffee Institute (IBC), the agency that regulated coffee trading, throwing the market into

Exports were also blocked by a sudden revaluation of the by a sudden revaluation of the Brazilian cruzeiro, although the Central Bank has now allowed the currency to float down by 17 per cent, making exports profitable again.

IBC used to regulate coffee prices, quality and export volumes carefully it charged a 8

prices, quanty and export vol-umes carefully. It charged a 6 per cent export tax to finance buffer stocks, which now stand at 17m bags (of 60kgs). Brazil's Ministry of Agricul-ture will probably become responsible for domestic poli-cies, such as establishing sup-port prices and financing. A port prices and financing. A separate department is to

monitor domestic prices and

supplies and manage stocks. Government regulation became increasingly unneces-sary with the collapse last July of the international coffee agreement. The imposition of free domestic market in Brazil, the largest coffee producer, will make it all the more difficult to revive the agreement

ng country. Although producers comlain that prices are still too low, traders are optimistic that free market conditions

trade quotas for each coffee

Soviet payment problems worry grain trade

By Bridget Bloom, Agriculture Correspondent

REPORTS THAT the Soviet Union is seriously behind in payments for western grain imports have provoked a flurry of official "no comments" from the international grain trade.

"Its a very sensitive subject," said one executive confidentially yesterday. He added - off the record - that what was happening should probably be seen as the "typical fall-out from perestroika" rather than a Soviet cash crisis which could have long-term effects on the grain trade.

Secrecy makes it difficult to establish the facts with certainty. However, what seems to have happened is that the big US grain trading companies -including Continental. Cargill
and Louis Dreyfus -- earlier
this month decided not to sell
to the USSR because Moscow had not paid up on earlier con-

Smaller companies, however presumably with less outstanding credit, did contract some sales. Figures of 300,000 tonnes of wheat sold by the US-based Mitsubishi International among others are quoted, toethger with 1.7m tonnes of

In the last 12-18 months as a consequence of economicrestructuring, the Soviet Union has shifted from buying grain for cash - raised through credit lines within the internal Soviet system - to seeking credit, usually of 120 days. from the sellers. The suggestion is that Moscow may be behind on these payments to the big companies to the tune of \$500m and that this has provoked them to decline further sales until the backlog is

According to figures from the International Wheat Council, western grain sales to the USSR have so far amounted to over 31m tonnes in the 1989-90 year (ending June 30) of which just over 12m tonnes is wheat and around 19m tonnes comprises coarse grains (including maize and other seed grains).

The EC has contracted to sell about 4.3m tonnes of wheat and 3m tonnes of coarse grains and is not apparently involved in the current credit affair. The main difficulties for the ECrecently have centred on tying in availability of Soviet shipping

with EC rules governing export nubsidies on the sales. Soviet ships have been slow in arriving from Baltic ports and the EC Commission has thus reluctantly extended its export restitutions beyond their traditional one month

ు వార్కు ప్రాంతి మందు మారువును సంగ్రాములు అకార్యాలు ఉద్దేశాలు మూడు ముంది. మార్గాన్ స్టాన్స్ స్టాన్స్ స్టాన్స్ మ

Western grain sales to the USSR 1989-90 (m tonnes)

Wheat Coarse Total 3.0 7.5 13.5 17.4 0.6 2.5 Canada

The current credit backlog is thought to apply only to sales of US grains but if the difficul-ties were to last for more than a few weeks the consequences could be very serious. The USSR is by far the most important customer for western

grain surpluses.
For example, US grain sales at \$1.9bn in 1987-88, were nearly four times as important

as its non-agricultural exports, while last year (1988-89) US agricultural exports to the ISSR totalled \$3.3bn.

Traders differ over the rea-sons for the current problems and thus their potential severity. The prevailing view seems ity. The prevailing view seems to be that perestroika, involving the restructuring of the Soviet economy, has ruptured previously well-established bureaucratic procedures. Under these, Exportkhleb, the Soviet grain buying agency, was provided by the Soviet Bank of Foreign Trade with promissory notes for sales. Since the big western companies have apparently not

since the big western compa-nies have apparently not received those promissory notes they have for the time being stopped sales, but feel that the problem is bureau-cratic and will be sorted out. As Mr Leonard Alderson, chairman of the board of Car-gill International, put it from Geneva yesterday: "our busi-ness with the Soviet Union has perhaps been slow for a time because of payment problems." However, noting an improvement in the situation in the past 10 days during which

some (unspecified) sales had been made, Mr Alderson said that the company's 26 years' experience of trading with the USSR had led it to hope that these problems will soon be a ... thing of the past."

Yet others point to the possibility of a longer-term Soviet. cash crisis. They point to spec-ulation that the reason for the recent drop in the price of gold (which was attributed to sales by Saudi Arabia) was in fact Soviet gold sales, the proceeds from which were needed to.

keep Soviet imports afloat. Whatever the reasons, western traders seem agreed on one thing: the Soviet Union's need for external credit is likely to increase rather than decline. They are thus anxious to see the successful conclusion of the current negotiations between the US and the USSR. These talks, which have

already produced agreement on a new long term grain accord, are intended to result in Moscow receiving most favoured nation status, which in turn would make the country for the first time eligible, for US Government credits.

Swedish farmers face an icy blast

Robert Taylor on plans to get rid of subsidies on food production

WEDISH CONSUMERS. served by a heavily subsi-dised and regulated agri-cultural sector, suffer the high-est food prices in the western world, except for the Norwegians. Yet the country's agricu ture is about to be reformed. despite stiff resistance from many of its farmers.

Mr Mats Helistrom, the Minister of Agriculture in Sweden's minority Social Democratic government, will Next Monday unveil the final set of proposals designed to liberalise an outmoded system, based on the principle of self-sufficiency and dating back to the 1930s. The primary recommenda-tion is expected to be a fiveyear transition period, starting

on July 1, for the eventual abo-lition of existing regulation of farm prices. Agricultural protection in Sweden has long been critic-ised. A highly critical study published two years ago by the Paris-based Organisation for Economic Co-operation and Development claimed that the objective of maintaining a high level of agricultural production had imposed costs on the economy that had slowed growth.

More recently, it pointed out that the price differential between Sweden and other developed countries had wors-ened. Over the past 10 years, there has been a 116 per cent rise in Swedish food prices compared with an average 81 per cent increase in western Strangely, in a country

Chance

whose people are highly organ-ised, there has never been a vocal consumer movement with power to argue the case for cheap food and free trade. Instead the farmers have managed to exercise great influ-ence over the political system, particularly through their connections with the small Centre

party.

The main problem is that existing price controls have led to the accumulation of expen-sive surpluses - estimated in cereals, for example, at around Im tonnes. Exporting the sur-plus has had to be subsidised by the Swedish taxpayer to ensure competitive prices. In recent years, the Swedish

Government has calculated that the subsidies have cost from Skr2.5bn-Skr3bn (\$410m-492m) a year.

The government wants to adjust the system so that agri-cultural production is limited to meeting Swedish domestic needs, plus an amount that can be exported abroad without financial loss. If this were done, it has been estimated, at least 500,000 hectares of exist-ing farm land would no longer

be needed for food production.

It has also been calculated that grain prices would fall by 20 per cent, beef by 9 per cent, pork by 5 per cent and milk by 3 per cent. On the other hand, there would be a loss of jobs in An estimated 8,000 farmers

out of a total of 70,000 would lose their livelihood on the land, with a further cut of 6,000

1817/1810 1828/1517

WORLD COMMODITIES PRICES

m, 99.7% purity (\$ per tonne)

1501-3 1516-6

1522-4

Copper, Grade A (E per tonne)

1613-6 1527-8

jobs in food processing, according to the government.
Only about 3 per cent of tural change does not mean that the forces against deregu-lation can hope to win a rear Swedes work in agriculture, which accounts for around 1.8 per cent of the country's gross domestic product. Only 7 per cent of the land is suitable for

ture. However, such statistics understate the importance of agriculture to Sweden. Many Swedes have an emo-tional commitment to the land, even if most live in a highly urbanised society. The industrial revolution arrived late in Sweden and most Swedes continue to maintain quasi-rural

roots through ownership of a family cottage. As recently as 1985, the Swedish parliament continued to endorse an agricultural policy that stressed as its objective the protection of domestic production in peacetime and production in peacetime and for possible emergencies. The declared aim has been to provide consumers with access to
"food of high quality at reasonable prices." The opposite has
been nearer the truth.

Opposition parties with a keen interest in the preserva-tion of the countryside — like the Centre as well as the Greens and the Communists temper any favourable view of a change in agricultural policy with a determination to ensure alternative sources of employ-ment are available to those to be hit by structural change

However, a wider strategy

signed to support rural Swe

den through a period of struc-

41,431 lots

AM Official Kerb close Open Interes

guard action to protect the sta-tus quo. More radical elements in the ruling Social Democratic Party - particularly the lib-eral economists at the Ministry either arable farming or pasof Finance - would like to dismantle completely the whole protectionist system that insulates Swedish agriculture from international markets.

Next Monday's announce-ment should indicate just how far Mr Hellstrom is prepared to meet the conflicting pressures from various interest groups. Much will depend on how the Swedish Farmers' federation reacts to what he plans.

The Swedish Government sees agricultural reform as an important ingrdient in its wider strategy of making the country more efficient, more competitive and more open to market forces. At the moment, it is also grappling with one of the highest rates of inflation in the western world, a chronic balance of payments deficit

and low growth.

It will not be easy, but putting the interests of consumers before those of the producers for once could help allevists some of Sweden's underlying economic difficulties.

Many Swedes believe the time has come when their agri-culture should be treated in the same way as their manufacturing industry and made to stand on its own feet free from red tape and financial support from overburdened taxpayers.

Clearing deal in US futures may set precedent

By Berbare Durr In Chicago

FOR the first time in the US for the first time in the Co-futures industry, an exchange clearing house will contract out for another house to clear its trades. The New York Cot, ton Exchange's independent clearing house - the Commodity Clearing Corporation — has agreed to contract the clearing house of the Chicago Board of

Mr Roger Rutz, president of the Board of Trade Clearing House, said: "This may lead to further common processing in the futures industry and make US markets even more efficient

than our foreign competitors."

The step is expected to lower clearing costs for the Cotton Exchange, although details of the payments for Chicago's ser-vices have not yet been worked

Savings will come from the economy of scale at the Board of Trade Clearing Corporation, or Trade Casaring Corporation, the industry's largest clearing house. It processes normally up to 700,000 contracts daily and the Cotton Exchange's comparatively low daily volume of some 20,000 or so, will not stretch its capacity, Mr

Rutz said. The Board of Trade Clearing other services to the industry, such as risk analysis and it serves as the processing agent for the inter-market information aharing system estab-lished shortly after the crash

8.1

MARKET REPORT

COPPER prices retreated on the LME - volatile trading in the morning saw three-month metal trade down to £1,517 a tonne, the lowest level since early March, on general liquidation and some short selling in expectation of an early and to the strike at Southern Peru Copper. Market talk also suggested that recent high premiums are expected to attract fresh metal to LME warehouses, where stocks have halved since the start of the year to 54,575 tonnes. The fall continued on Comex, and steepened just before midsession on news that the 27-day-old strike at Peru's Tintaya mine had ended. However,

London Markets

POT MAJESTS

Crude oil (per barrel FOS)		+ or -
Dutiel Brent Blend W.T.I. (1 pm est)	\$14 35-4 50x \$17 10-7.15x \$18 75-8.78x	+.825
Oil products (NWE prompt delivery per h	onne CIF)	+ or -
Promium Guadum Gas Cii Heavy Fuel Oii Naphtha Petroleum Argus Estimeles	\$214-216 \$160-161 \$76-78 \$163-165	+4 +2 ¹ 2 +1 +8
Other		+ ar -
Gold (per troy oz) Silver (per troy oz) Platinum (per troy oz) Palledium (per troy oz)	\$376.25 510c \$480.75 \$129.50	+ 1.00 -2 + 2.25 + 0.15
Aluminium (free market) Copper (US Producer) Lead (US Producer) Nickel (free market) Tin (Kuala Lumpur market) Tin (Kuala Lumpur market) Tin (New York) Zinc (US Prime Western)	\$1515 134c 50c 400c 17.52r 305c 63c	+15 +0 15
Cattle (live weight)† Sheep (dead weight)† Pigs (live weight)†	114 33p 244 62p 99.40p	-0.96° -7.18° -2.46°
London daily sugar (raw) London daily sugar (white) Tate and Lyle export price		+8.0 +6.0 +3.5
Berley (English feed) Maize (US No. 3 yellow) Wheat (US Dark Northern)	E107/75 £138t £119y	+0.75
Rubber (May)♥ Rubber (Jun)♥ Rubber (KL RSS No 1 May)	56.25p	-0.25 -0.25
Coconut oil (Philippines)§ Palm Oil (Maleysian)§ Copra (Philippines)§	\$255.0 \$232.5y	-25 -25
Soyabeans (US)		-15 -080

analysts were quick to add that copper was moving on such thin volume that the late-moming alide might have been exaggerated. Lower LME copper contributed to the failure of three-month lead prices to hold above £500 a tonne. On the Baltic Futures Exchange dry cargo freight futures remained In sharp retreat — dealers said earlier optimism that there could be a slight recovery next month had now completely evaporated and May is now trading at a substantial discount to April. In Chicago pork bellies were up by

		21000	L 1641082	LVALDER	
_	May	335.80	341.20	341.00 334.60	
_	Aug	143 89	348.80	348.60 343 00	
+ or -	Oct	337.60	342,40	342.40 337.00	
+ 625	Dec	334 00	336.60	330.00	
+.825	Mac	314.40	317.00	317.00 313 40	
+ .915	May	312.80	315.20	315.00 312.00	
	Aug	312.60		315.00 312.00	
+ or -	White	Close	Previous	High/Low	
+ 4	Aug	439.5	441.5	440.5 433.5	
+215	Doi	410.0	413.0	412.0 409.5	
+1	Dec	398.0		397 0	
+8	Mar	394.0	397.5	396 6 391 5	
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+ ar -		74 (1141)	,,.		
			per tonne):	Aug 2477, Oct 2	330.
+ 1.00			248, May 22		
2					
+ 2.25	CRUDE	OS - E	PE	\$/ba	υτeλ
+ 0.15		11		- Webs	
+ 15		Lates			_
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	Jul	17.54		17 54 17.00	
	Aug	17.86 17.72		17.65 17.36	
+ 0 15	Sep IPE Inde			17.72 17.70	
	IPE ING	7X 10.40	16.99		
	Turnovo	r 7813 (3	1655)		
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-6.0	Jun	152 25	148.25	153,00 149.75	
+ 3.5	Jul	152.25	148 50	152.75 150 00	
	Aug	154.25	150.50	154.50 151.75	
+ 0.75	Sop	155.25	153.50	155.90 (52.00)	
	Oct	157 00	154 75	167.00 154.00	
	Nov	158.50	157.75	158.50 156.50	
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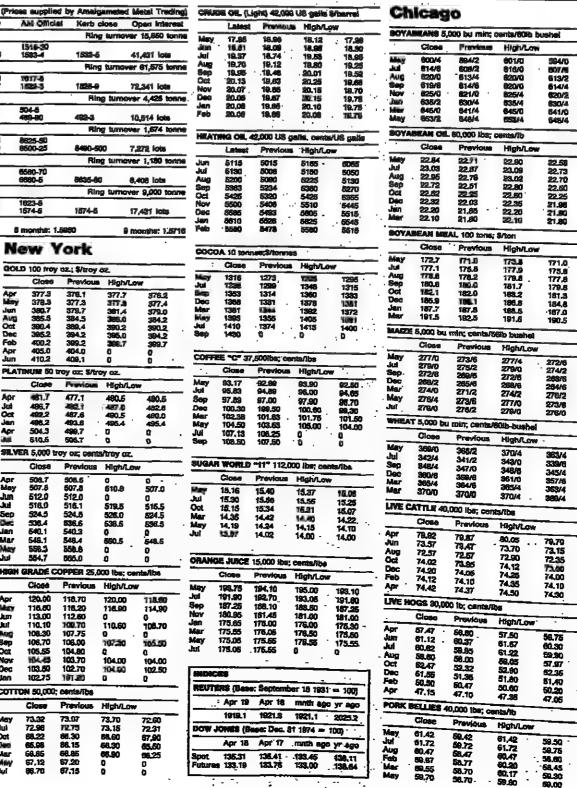
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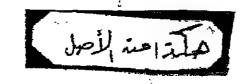
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DOL	410.0	413.0	412.0 409.5					
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Mar	394.0	397.5	396 6 391 5		Close	Previous	High/Low	
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red (2) ber	tonne)						Bl	ng turnove	r 4,425 tonne	Dea	20.05	19.5
	502-4	517-6		508/505		504-5		4		- Jen Feb	20,08 20,08	19.6 19.8
	493-4	502-0		500/486	-	489-80	492-5		0,514 lots			
lickel (5 per					_		Ri	ng turnove	r 1,674 tonne	HEAT	NG OIL 4	62 (MI) 2
	8650-700 8480-500	8550 8490		8680/8625 8500/8400		8625-50 8600-25	8490-5	200 7	272 lots		Latest	Prev
in (\$ per to	nne)		-						r 1,180 tonne	-		_
	8540-60	6520	20	_	_	6580-70	- Ni	M INITIAG	7 1,100 101414	Jun	5115 6130	5015 5008
(North)	6650-60	0825		6670/6645		6860-5	8635-6	o a.	408 lots	Aug	5200	5080
inc, Specie	l High Grade	(\$ ser	tonne)				RII	_	r 9,000 tonne	Sep	5363	5234
	1625-30	1641-	_	1632/1625		1623-5				Nov Nov	5425 5500	5320
	1578-80	1593		1583/1563		1674-6	1574-5	17	7,421 lots	Oec	5585	5493
ME Closing	C/S rate:			_	_					Jen Feb	5610	6628
POT: 1.645		3 man	1.61	180		months: 1	.6050	9 m	onthe: 1,6716	rec	- 5580	5478
					M	ew \	/ork			-		
DEPON BY	JLLICH MAR	KET								0000	A 10 tons	
ald (fine oz) S price	5	adulva	ent	QOL	D 100 troy	102; \$/troy	GE_		:	Close	Prev
OS8	375-3781 ₂	2	28 7-22			Close	Previous		-	May	1316	1273
pening	3764-3774		2914-225	94	Apr	377-3	376.1	377.7	376.2	Jul Sept	1353	1299 1314
orning flx Ternoon flx	376.60 375.75		28,839 28,376		May	378.3	377.3	317.5	377.A	Dec	1356	1331
ry's high	377 ¹ 2-378	-	20.019		Jun	380.7	379.7	381,4	379.0	Mar	1381	1.004
y's low	3754-3754				Aug	385.5 390.4	384,5 389,4	386.0 390.2	384.2 390.2	Jul Jul	1395 1410	1355 1374
-	£	_			Dec	395,2	394.2	395.0	394.2	Sep	1430	0
Piles .	S price	_	equiva	ient.	Feb	400.2	399.2	368.7	399.7			
aptelest Kannia	387-392 387-392		35-238 35-238		Apr Jun	405.0 410.2	404.0 409.1	0	<u>.</u>	COFFE	Œ "C" 37	.500lbs
Eagle	387-392	2	35-238						0 .	-	Close	Previ
ngel .	387-392		35-238				troy oz. \$/ta			May		
ugerrand w Sov.	376-379 881 ₂ -891 ₂	2	28 1 ₂ -230 8 3 ₄ -54 4	3.75		Clase	PYWYOU	High/Lo	w	Jul	93,17 95,83	92.99
d Sov.	8812-8912		34-544		Apr	461.7	477.1	480.5	480.5	Sep	97.89	97.00
ble Plat	486.00-493.7		95,00-29		Jui	496.7 492.2	487.6	490.5	482.6 480.0	Dec Mer	100.30	199.5
6-					Jen	496.2	493.6	495.4	495.4	May	102.3B 104.50	101.6
wer fix	p/fine cz		S cts ec	UIV	Apr	504.3	499,7	0	α.	Jul	107,13	108.2
ot	309.20 320.65		09.10		345	510,6	506.7	0	0	Sep	108.50	107.5
months	333.00		19.65 31.35		SILV	ER 5,000 b	roy oz, cent	sylindy cz.				
ពាទូកជិន	358.90		54.00			Close	Previous	High/Los	"	ŞUQAR	WORLD	"H1" 1
					Apr	506.7	505.5	0	0 -		Close	Previo
					May	507.8	507.8	610.9	507.0	May	15,16	15.40
					Jun	512.0	512.0	Ò	0	Jul	15.30	15.66
					Jul Sep	516.0 524.5	516.1 524.5	519,5 526,0	515.5 674 E	Oct	15.15	15:34
ADED OF	TONS				Diec	536.4	538.6	538.6	824.5 886.5	Mar May	14.35	14,42
eminium (9	9.7%) C	alis	P	uis	jen	540.1	540.3	0	0	Jul	13.07	14.02
rike orice S	tonne May	July			Mar May	548.1 558.3	548.4 558.6	660.5	548.5			
	<u>-</u>	—÷	May	<u> </u>	Jul Jul	554.7	565.0	0	0 .			
86 50	82 15	107	2	24						CHARG	E JUICE	15,000
50	1	50 19	35 120	65 133	THE		OPPER 25,	000 lbs; ce			Close	Previo
opper (Grad	le A) C	ils				Close	Previous		7		198.75	194,10
					Apr	120.00	118.70	120,00	110.00		191,90	162.70
00 00	189 108	148 97	8		May	116.60 113.00	115,20	116.90	114,90		187.25 180.95	188.10
ÖÖ	51	90	25 66		Jun Jul	110.10	112.60	0 110,60	0 708.70		175.65	175.00
					Aug	108:30	107.75	0 .	0		175.55	176,05
Des	Jul	Sep	Jul		Sep	106.70	108.00	107.30	105.50		175.08 175.05 .	175.65
	59	77	31		Oct Nov	105.55	104.80 103.70	Q 104.00	0	341	173.00 .	175.55
0	35	52	57	64	Dec	103.50	102.70	104.50	104.00 102.50			
<u> </u>	20	36	92		Jan	102.75	101.20	0	0	SHDIC	13	
COM	Jul	May	Jul	May	COTA	DN 50 000	cents/lbs			REUTE	R\$ (Base	ı: Sept
0	55	85	27	40			<u> </u>				Apr 19	Apr
9	31	59	53	64 -		Close		High/Low			1919.1	1921.
3	17	41	69		May	73.32	79.07	73.70	72.60	I		
ent Crude	Jun	Jul	h-		lui Oct	72.98 68.22	72.75 66.30	73,15 68,60	72.31	I DOM ?	ONES (B	
			नुस्रम		Moi	65.98	86.15	68.30	67,90 65,50	_	Apr 18	Apr
10 50	43 23	74 51	42		Jac	68.85	68.85	66.90	66,25	Spot	135,31	136.4
ži	12	•			Mily Iul	67,12 86.70	67.20 67.15	0	0	Futures	133.19	183.7
				•		44.76	J. 119	•	0		 .	
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LONDON STOCK EXCHANGE

Gloomy session but no heavy selling

THE UK stock market took another turn for the worse yes terday as the overnight setback on Wall Street supplied the final bearish pressure on an already depressed equity sector, and clearly outweighed any benefit from the firmer tone in Tokyo. The important chart sensitive FT-SE 2,200 mark was abandoned in early trading, and an uncertain opening on Wall Street cut the ground from any attempts to rally in London.

The Footsie Index lost 21. points on the day, or around one per cent, although selling pressure was light - indeed. market volume remained unimpressive until the final

Accon	nt Dealing	Dates
*Pirat Declings Apr 8	Apr 30	May 10
Option Declare Apr 28	done: May 10	May 24
Last Dealings: Apr 27	May 11	May 25
Account Days May 8	May 21	Jun 4
Flow time day	dings may take selases days e	place from

hour when New York influences helped push Seaq vol-ume to 491.9m shares, well above recent levels. The final reading showed the FT-SE Index at 2,184.7, down 2L2, after touching a day's low of 2,180.5 at mid-session. The loss, which was mostly suf-

fered in the first half of the

session, left the market looking cautious rather than shaken. Some strategists believed that the investment institutions will be buyers of UK equities at the new levels. Although there was little sign of this yesterday, several leading securities houses claimed that their day's business had been tilted towards the buy side. In late deals, London was closely influenced by Wall Street and particularly by the

US bond market. If London continues to fall, then the chart analysts claim that there will be little support above Although the New York mar-ket provided the immediate

morning, when the Footsie dipped to 2,192 within the first hour, the London market was also reacting to the flow of worrying corporate news and economic data over the past fortnight. Also driving equities lower were the sharp falls in UK Government bonds in early trading, although these were reduced later. The equity sector paid little heed to the disclosure of a UK Public Sector. closure of a UK Public Sector

than expected. In view of the market's concern this week as it slid towards the Footsie 2,200 mark, vesterday's session was sur-

Borrowing Requirement of 21.6bn in March, slightly lower

prisingly apathetic. Traders described market volume as "terrible" for most of the day. Some resorted to technical arguments, suggesting that marketmakers had wanted the market lower in order to pick

up stock cheaply.

The next hurdle for domestic equities is likely to be the UK monthly trade figures for March, due next week. The international scene remains threatening, with the possibil-ity of higher interest rates on the other side of the Atlantic causing concern in UK markets, where any upwards move in rates would threaten a pre-carious economic and political

which 2.8m shares changed

hands, well up on usual levels in the stock. There was revived

talk that a deal with another

big electronics group could be about to take place, with

Japan's Fujitsu said to be favourite to take a stake of around 20 per cent in ICL,

STC's computer subsidiary.
"The stories have been

around for some time but seem to be coming to a head," noted

one specialist. STC is sched-

uled to hold a presentation in London on May 3 at which it is

expected to launch its new

"top-of-the-range" computer. EuroTunnel lost 18 to 565p as

refinancing worries remained.

Albert Fisher, the food retailer, held steady against a falling market following stron-ger than expected interim results. The £30.5m rise in prof-

its compared with £19.9m at

the same stage last year and was above most analysts' fore-

casts. "These are very good results," said Mr Bill Myers of

Henderson Crosthwaite. "Albert Fisher is a fabulous

story." Fisher shares were

at 314p, supported by a slightly higher than expected 26 per cent rise in interim profits.

Firmer crude oil prices failed to give much of a lift to oil and

gas stocks, although they gen-

erally outperformed the rest of

the market. Crude prices were boosted by news that OPEC

had postponed the meeting

scheduled for May 25 until

June 25, and scheduled an

emergency meeting for May 2.

good turnover of 6.2m, while Shell settled 4 down at 447p on

3.3m. Ultremar dropped to 338p

before institutional support

BP were only 2 off at 815p on

William Low were unaltered

unchanged at 118p.

April 19 75.53	April 18 75.56	April 17	April 12	April	Year				
75.53	75.56			11	Ago	High	190 Low	Since Co High	enpilation Low
		75.88	76.31	76 70	86.18	84 20 (2/1)	75.53 (19/4)	127 4 (9/1/35)	49.18 (3/1/75)
85.50	85 55	85 69	85.85	85.76	97.22	92 91 (8/1)	85 12 (23/3)	105.4 (28/11/47)	50.53 (3/1/75)
712.2	1732.6	1736.3	1741.0	1733 3	1698.5	1968.3 (3/1)	1712.2 (19/4)	2008 6 (5/9/89)	49.4 (26/6/40)
248.7	248 0	250 6	248 8	249.6	185.8	378.5 (6/2)	248 0 (18/4)	734 7 (15/2/83)	43.5 (26/10/71)
184.7	2205 9	2214.5	2222.1	2215.5	2064.4	2463.7 (3/1)	2184 7 (19/4)	2453.7 (3/1/90)	986.9 (23/7/84)
12.03	5.15 ♣ 11.91 ♣ 10.20	5 15 11.90 10.21	5 13 11 85 10.24	5 16 11.93 10.19	4 58 11.11 10 86	Ordinar	y 1/7/35, Go	ld mines 12%	
0,566	19,557 588.84 19,178	19,214 435.98 13,029			26,214 1348,41 30,998				
- urly cha	311.5	216.9	307.5	332.6	503.8	E 17			
				n 3 pr 16 1713	n 4 pn .7 1716	n busin	ess & Overs Tindices of	daily Equit.	Calculation of Bergains and
	m 12 p	m 1 p	m 2 pr	n 3 pr	n 4 pn	.5 Equility continues as a London	Bargams a substantial Balable on re on recommen	and Equity V 31 Closing equast digtest Shar	/elue, was dis- velues for July re index.
	11 a 1718	248.7 248 0 2184.7 2205 9 1184.7 2205 9 12.03 11.914.10.10 10.20 10.566 19.557 - 588.64 - 19.178 - 311.5 utily changes 0 1 11 am 1718.2 12.6 1 11 am 12.6 1 11 am 12.6 1 11 am 12.6	248.7 248.0 250.6 2184.7 2205.9 2214.5 5.19 5.154 515 5.19 5.154 515 12.03 11.914 11.90 10.10 10.20 10.21 10.566 19.557 19.214 - 588.84 435.88 - 19.178 19.029 - 311.5 216.9 curly changes Day's High 11 1 am 12 pm 1718.2 12187.3 1.9	248.7 248 0 250 6 248 8 2184.7 2205 9 2214.5 2222.1 2184.7 2205 9 2214.5 2222.1 2184.7 2205 9 2214.5 2222.1 2184.7 2205 9 2214.5 2222.1 2184.7 1.90 11.85 210.10 10.20 10.21 10.24 20.566 19.557 19.214 19.596 20.566 19.557 19.214 19.596 20.566 19.557 19.214 19.596 20.566 19.557 19.214 19.596 20.566 19.557 19.216 19.396 20.566 19.578 19.029 18.996 20.566 19.578 19.029 18.996 20.566 19.578 19.029 18.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.996 20.566 19.578 19.029 19.029 19.996 20.566 19.578 19.029 19.02	248.7 248.0 250.6 248.8 249.0 2184.7 2205.9 2214.5 2222.1 2215.5 19. 5.15.4 515.5 513.5 16 19.203. 11.91.4 11.90. 11.86 11.93 10.10. 10.20. 10.21. 10.24. 10.19 10.566. 19.557. 19.214. 19.596. 18.961 - 588.84 435.98 756.624 602.914 - 19.178 19.029 18.9984 19.286 - 311.5 216.9 307.54 332.6 2187.3 12.pm 1712.8 Day's 10. 11.am 12.pm 1717.8 1712.6 1713 Day s High 2194.9 Day's 10. 11.am 12.pm 1717.8 1712.6 1713 Day s High 2194.9 Day's 11.1 am 12.pm 1718.0 3.pm 1718.8 0 2187.3 2188.0 2187.3 2188.0 2181.4 2184	248.7 248.0 250.6 248.8 249.0 185.8 2184.7 2205.9 2214.5 2222.1 2215.5 2064.4 5.19 5.15. 515 513 516 458 11.93 11.91 11.90 11.86 11.93 11.11 10.10 10.20 10.21 10.24 10.19 10.86 10.566 19.557 19.214 19.596 18.961 28.214 - 588.84 435.98 758.624 502.914 1348.41 - 19.178 13.029 18.934 19.286 30.998 - 311.5 216.9 307.54 332.6 903.8 unity changes Day's High 1722.8 Day's Low 1711 11 11 am 12 pm 1 pm 2 pm 1712.6 1713.7 1716 Day s High 2194.9 Day's Low 2180 11 1 am 2187.3 1288.0 2181.4 2184.1 2187	13/11 12 pm	13/11 19/4 19/4	248.7 248.0 250.6 248.8 249.0 185.8 376.5 248.0 734.7 (5/2/88) 2184.7 2205.9 2214.5 222.1 2215.5 2064.4 2653.7 2184.7 2453.7 (3/1) (19/4) (3/1/90) 218.7 2205.9 1.91.6 1.90 1.85 1.93 1.1.1 Ordinary 17/35. Gold rules 12.9 10.10 10.20 10.21 10.24 10.19 10.86 FT-5E 100.31/12/83 ≈ Nii 10.00 10.00 10.21 10.24 10.19 10.86 FT-5E 100.31/12/83 ≈ Nii 10.00 10.00 10.21 10.24 10.19 10.86 FT-5E 100.31/12/83 ≈ Nii 10.00 10.00 10.00 10.00 10.21 10.24 10.19 10.86 FT-5E 100.31/12/83 ≈ Nii 10.00 1

Spotlight turns on Globe

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A Property Days

THE WORLD'S largest investment trust, Globe, was the centre of considerable speculation yesterday. For some time the market has been dogged by rumours that an article in the session the spotlight turned to Globe which gained 21/2, against the market trend,

Increased buying of the shapes on both UK and European account alerted traders to the possibility of a bid for Globe, which is now highly liquid following the sale of its Electra state. A pile of mores Electra stake. "A pile of money and assets is sitting there at a discount of around 15 per cent

aid one dealer. 11%p before steadying to close
Two potential purchasers a net 2 down at 12%p.
ese named, one being the The newspaper article said one dealer. were named, one being the Coal Board pension funds, which have a history of dealing well in the sector, having successfully taken out Drayton Premier and TR Industrial & General in recent years. The Coal Board already has a 29 per cent holding in Globe. The other possible buyer was said to be an Australian invest-

discount (to the share price),"

ment concern. An analyst said Globe must be an attractive proposition given the current scenario, but questioned whether an institu-tional investor would be prepared to pay out £1bn with the market now below the Footsie 2,200 mark

Commenting on the British Coal rumours, Mr David Hardy, Globe's chairman, said: "I do not believe there is any credence in this Coal Board story. I was with them today and this was never men-

Asda depressed

Asda, the supermarkets group, was depressed as talk of distribution problems and poor trading drove it below the psy-chologically important \$1 share price level, a point last breached in 1983.

The company vigorously denied the speculation. A spokesman described the talk of distribution problems as "an old sausage." Trading difficulties were also dismissed. "Asda a very good Easter," he said.

Turnover was an unusually high 11m shares as several lines of stock overhanging the market were cleared. Bargain hunters stepped in at lower levels but failed to halt the

Also weakening the shares were suggestions that UBS

Phillips & Drew had been talking Asda lower. UBS denied this, although Mr John Smith, an analyst at UBS, said the house remained long-term

bears of the stock.

Mr Smith drew attention to
the impact of high interest rates and sluggish consumer spending on Asda's non-food interests. "No other food retailer has such a high exposure to non-food items in their

sales mix," he said.
Asda, which closed 6 lower at 94p, now stands 35 per cent below its year-ago level and 55 per cent under the high of last September. This compares with the FT-SE 100 index, which has risen 5.3 per cent and fallen 4.6 per cent respectively over the same time periods.

Coloroll weak

A press report that Coloroll, the troubled home products group, was hoping to raise about £75m exerted fresh pressure on the shares and they feli to a lowest ever price of

suggested that the group, once headed by Mr John Ashcroft, was considering various solu-tions to reduce debt and save itself from receivership. But Mr Kenneth Marks, the new chairman, said the favoured option was a "conventional rights issue".

He has presented his assessment of the group's financial position to merchant bank S.G. Warburg, which is finalising proposals for a restructuring pian to recapitalise Coloroll. Warburg intends to visit Coloroll's banks and institutional investors during the coming weeks to sound out support for the plan.

Bass lower

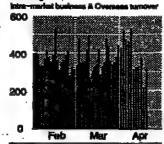
The feature among brewery issues was Bass after a US-based securities house advised investors to switch out of the stock. The shares gave up 12 to 923p, although a meagre 478,000 were traded.

Mr John Wakely and Mr. Chris Wickham, brewery analysts at Shearson Lehman Hutton, advised switching out of Bass and into Grand Metropolitan, citing problems concern-ing Bass's \$2.bn acquisition of the Holiday Inns chain in the

FT-A All-Share Index 1150 🖁

1050 **Equity Shares Traded** Turnover by volume (million)

1100



US, completed earlier this year.
They said: "Our information is that rates are not increasing in US hotels and if anythin are getting worse, and that room occupancy is flat to down in the light of the high price paid for Holiday Inns, this could create further negative sentiment."

Bass are, however, not totally out of favour and are among brewery stocks which County NatWest is urging investors to buy Mr Neil Junor at County believes brewery stocks currently represented "good value," and expects Bass to sell its Crest Hotel chain. before May's interim results for a figure in excess of 2350m. Among priarmaceuticals, Glavo closed 3 up at 785p fol-

lowing a somewhat erratic trading course. After drifting easier with the rest of the picked up at the close on US buying, apparently reflecting belief that the price has yet to do full justice to the prospects for BCH 188, the anti-Aids drug venture with IAF Biochem of

SmithKline Beecham suffered from its links with the US, slipping 17 to 479p, and Wellcome (669p) and Fisons (340b) were easier.

Reuters, a particularly Wall Street orientated stock, shed

NEW HIGHS AND LOWS FOR 1890

HAMESTOR, WIDSITE V.

(FILL RESIDENCE CE) LEISURE (15) INV.

(FILL RESIDENCE CE) PAPERES (8) PROPER

(16) TEXTELES (8) TORSACCOS (2)

(16) TEXTELES (8) TORSACCOS (2)

(16) CHAMESTOR (2) TRUSTO (27) WATER (8)

OULS (16) CYNCHESEAS TRADELES (2)

OULS (16) CYNCHESEAS TRADELES (2)

only 9 of the recent strong gain to close at 1148p.

A bullish note by Hoare Govthe sector stabilise after its recent poor showing against

the rest of the market.

Mr Nigel Hawkins, Hoare's water analyst, said the sector had fallen by 15 per cent on a partly-paid basis since February 1, compared with a 6 per cent fall in the All-Share Index over the same period, with political factors the central rea-son for the decline. Mr Hawkins added that the market had "overreacted to these develop-ments; we predict a bounce in coming weeks." It is, he said, far too premature to write off a Conservative Party revival.

The water sector, according to Mr Hawkins, offers fundamental defensive attractions: recession proof earnings, which should grow at an average compound rate of at least age coincident rate of at least 10 per cent a year; and divi-dend growth which should be around 4 per cent in real terms. The sector trades at a current year multiple of 5.6 times - a discount to the market of 46 per cent - and offers a prospective yield of 8 per cent compared with the market average of 5.5 per cent.

Hoare said Anglian and Wessex are "noticeably unnder-rated by the market" and Thames' asset base "is also attractive." Anglian moved up 3 to 146p on 1.3m shares, as did Wessex, to 145p on 530,000. Northumbrian rose 4 to 163p, South West 5 to 157p and the Water Package 18 to £1413.

The banks remained an extremely volatile area of the market, with share prices losing further ground before steadying in what was described as heavy two-way trading. One dealer said that the sector "has been bashed shout but seems to have reached a level where there are The shares have been badly

affected by worries over their exposure to the British & Commonwealth/Atlantic Computers affair. Of the "big four" the heaviest turnover, 5m shares, was in Lloyds, off 2 at 259p. Barcleys lost 6 to 544p, after 540p, on 3.3m, while NatWest gave up 7 to 327p and Midland 3 to 315p. Standard Chartered fell 12 to 515p. Boyal Insurance drifted back

4 to 451p after the statement by the chairman at the annual meeting, which said the company expected losses from the January/February storms to total around £100m, but that this figure would be minimised by reinsurance cover. Royal's first-quarter figures are sched-

uled for May 17.

T&N closed 5 firmer at 159p, with dealers taking the view that the recent rights issue would not overhang the shares. STC, the electronics group, were persistently bought throughout a session during

TRADING VOLUME IN MAJOR STOCKS

triggered a rally to leave the shares a net 8 down at 340p. Burmah lost 11 to 608p despite dublous market suggestions of a bid for the company

Midland & Scottish Resources, in which British & Commonwealth holds a 6.1 per cent stake, ran back 28 to 173p after the company announced a £150m rights offer to help finance the acquisition of Tortin Investments, a Guernsey-based group involved in the building in Italy of a floating oil rig with the world's

Shares in Speyhawk, the property company, fell steeply to 164p before rallying to 169p, a net fall of 32. The company said it was aware of no reason for the movement in its shares and emphasised that it "does

not need, nor has any intention of raising fresh capital." Rockfort Group, the property development company, fell 7 to 25p following a sharp fall in its final results to £3.1m

from £8.8m last time. Carlton Communications, bedevilled by rumours on Wednesday, staged a tentative rally, closing 2 firmer at 483p on 2.6m. Behind the steadier trend were equally vague hints that Havas, the French media group, could be running the slide rule over Carlton. Allied Lyons closed 6 up at

432p on turnover of 1.5m shares after announcing the sale of its Embassy Hotels chain for £302m. Guinness firmed 2 to 654p on the back of a profits upgrading from Flemings. The latter now

expects 1990 profits of £825m (against £810m) and 1991 profits of £983m (£930m).

Mr Philip Shaw at Flemings said that following a recent visit to LVMH, the French company in which Guinness holds a 24 per cent stake, we found "the company to be trading strongly. Also, the trend in operating margins within Guinness's spirits division continues upwards." County Nat-West also showed a keen interest in the Guinness shares. Some 1.7m had been traded by the market close. Grand Metropolitan contin-

ued to be a good market, the shares hardening 5 to 584p. Other Market statistics, including the FT-Actuaries

share index, Page 30

LONDON SHARE SERVICE

Based on trading volume for most Alpha securities dealt through the SEAC system yesterday until 430pt

	BRITISH F	FUNDS		В	RITISH FU	NDS - Con	td		AMERICA	NS-Con	td	
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APPOINTMENTS

Chairman of Town & Country

Mr T.S. Mallinson, joint deputy chairman of TOWN & COUNTRY BUILDING SOCIETY, has been appointed chairman following the retirement of Mr R.L.A. Woolgar, Mr Mallinson is chairman of Lydney Products. Mr F.W. Vaughan Dale has retired from the board.

NATIONAL POWER, the largest generating company in the UK, has appointed Mr Paul Heward as director of investor relations, and Mr Colin Masterson as director of financial control Mr Heward has been director of investor relations for the Argyll Group since 1985, and Mr Masterson has been financial director of Savilla since 1986, National Power is expected to be floated next February.

BRITISH GAS has appointed Mr David Hider as director A domestic marketing, and Mr Colin Playle as director of industrial and commercial marketing. Mr Hider has been in the industry since 1967 and Mr Playle since 1957.

Mr William C. Baskerville retires as chairman of ROBSON COTTERELL stockbrokers, Bournemouth, on May 25. He will be

succeeded by Mr Maurice H. Oldfield, deputy chairman. Mr W.L.J. Lowe becomes director of a new branch in Eastbourne on May 1. He joins from Henderson Croathwalte Institutional Brokers.

 ACORN COMPUTER GROUP has appointed Mr Lorne Byatt, company solicitor, additionally as company secretary, succeeding Mr Sam Wauchope who becomes group managing director.

 A. MONK BUILDING AND CIVIL ENGINEERING, part of Davy Corporation, has appointed the following divisional managing directors: Mr Alan Gunner, southern; Mr Alan Tweddle, northern; Mr Tim Redman, business development, and Mr Terry Burdett, Davy Monk Projects.

THE PRODUCT CONNECTION (UK), Reading, which markets snack foods and confectionery, has appointed Ms Brenda Scott as financial director/company secretary. She was financial director of Mendip Foods.

THE WELSH DEVELOPMENT AGENCY has appointed Mr Meirion Thomas as executive director of its business services division, a department recently set up to boost small- and edium sized companies in Wales. The agency has also appointed as regional directors Mr Mike Shukman, South Wales valleys, Mr Huw

Thomas, West Wales, and Mr David Russ, South Wales West.



MERCURY PERSONAL COMMUNICATIONS has appointed Mr David Harding (above) as quality director of the mobile telephone network consortium. He was total quality management co-ordinator at Jaguar Cars.

■ Mr Peter Armitage has been appointed non-executive deputy chairman of ASSOCIATED PAPER INDUSTRIES.

■ Mr C.A. Turpin, managing director of Hatori-Marshall Co. Tokyo, has been appointed a director of M.W. MARSHALL & CO from May 1.

■ G.F. LOVELL has appointed Mr Humphrey Wood as a non-executive director. He was a managing director of Consolidated Gold Fields, with responsibility for ARC building materials. He is a non-executive director of Birse

Mr Richard Vincent has been appointed managing director of the UK subsidiary of THE EUROPEAN SOFTWARE CO, itself a subsidiary of Boole & Babbage He was vice president of marketing and international sales for XA Systems Corp. ■ LEP GROUP has appointed

Mr Philip Hampton as a non-executive director. He is director of finance at British

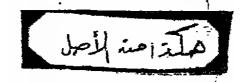


GREVOR has appointed Mr Mark Wellesley-Wood (above) as chief executive. He joins from Kleinwort Benson Securities, where he was director responsible for international mining.

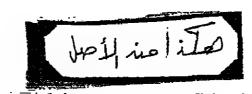


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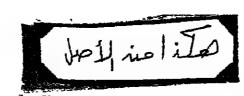


 $c_{\rm tot} = 0.05 / 125$



FINANCIAL TIMES FRIDAY APRIL 20 1990	LONDON CHARE CERVICE	● Latest Share Prices are available on FT Cityline. To obtain your free
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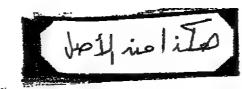
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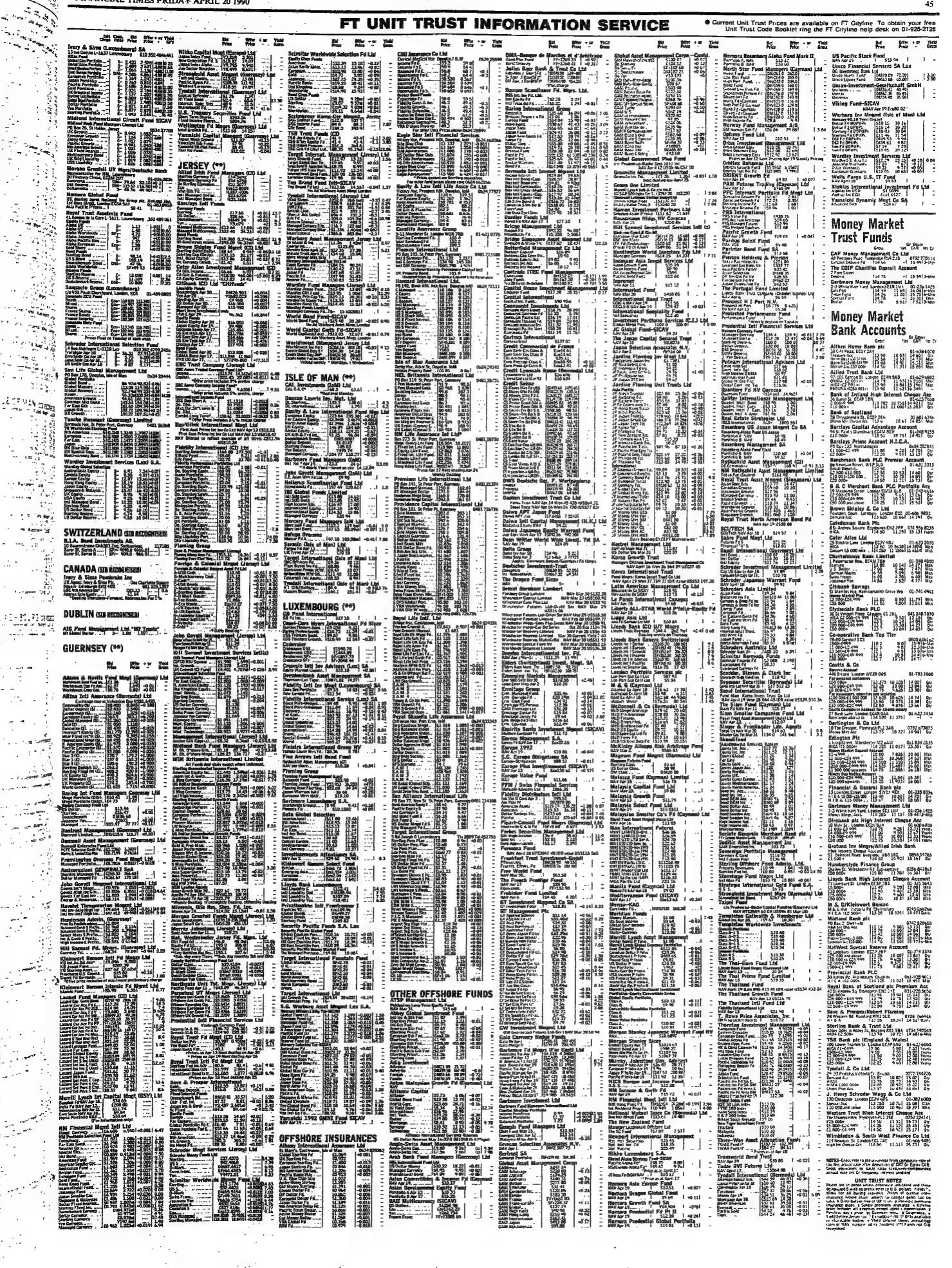
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CURRENCIES, MONEY AND CAPITAL MARKETS

FOREIGN EXCHANGES

Yen and sterling improve

THE WEAK yen and sterling rallied on the foreign exchanges yesterday, but the move appeared to be largely technical and did not change the underlying vulnerability of

both currencies. Selling of US Treasury bonds by Japanese investors has been evident in recent weeks, although it remains unclear whether this represents a per-manent repatriation of funds back to Tokyo, to cover losses on Japanese equities, or is simply an attempt to drive bond vields higher ahead of the next month's Treasury auction.

The move out of US bonds undermined the dollar yesterday, while sales of dollars by the Bank of Japan contributed to an improvement by the yen against the US currency. Unwinding of long D-Mark positions - after the West German currency fell through technical support at Y95.00 -also boosted the yen.

In Tokyo the Bank of Japan sold an estimated \$400m. The dollar closed at Y157.75 in the Far East and continued to decline during European trad ing. It touched a low of Y136.10, before closing at Y156.45 in London, compared with Y159.10 on Wednesday. The D-Mark also weakened sharply against the yen, falling to Y94.25 at the Tokyo close

Apr 19	Litet	Previous Close
Scot 1 rearch . 3 months 12 months .	1 6420 - 1 6430 0 86 - 0 85 cpm 2 60 - 2 58 cpm 9,45 - 9,55 pm	I 6365-1.6395 0 90-0 89pm 2.62-2.59pm 9 63-9 58pm
Farryard premi	ems and discounts ap	ply to the US dollar

	~ a		_
		4pr 19	Previous
30 00 00 00	am am .	87 0 87 0 86,9 87,0	86.9 85.8 85.9 86.9
00 00 00	mg m ₂	87.1 07.1	86 9 80 9

Cur	CURRENCY RATES					
Apr 19	Bank rate	Special* Orawing Rights	European : Currency Unit			
Starling . U.S. Dollar Canadian S. Aastrian Sch. Belgian Franc Danish Krone . Deutsche Mari. Nech Galider French Franc Italian Urs . Japanese ren Mornay Krone .	7 13:32 01: 101: 101: 101: 101: 101: 131: 3:8	0 796055 1 30139 1 51248 15 3689 45 2721 8 33085 2 18660 2 46223 7 14830 1606 47 208 353 8 51239	0,741756 1,22219 1,42019 14,3815 42,3306 7,79086 2,04363 2,30029 6,87239 1500,44 191,445 7,95647			

CURRENCY	L MOAE	Ments
Apr 19	Bank of England Index	Morgan ^{es} Gueranty Changes %
Surving U.S. Dollar Canadian Obilar Austrian Schilling Belgian Franc Damsh Krone Destsche fülar Switzs Franc Guilder French Franc Ura	87 1 63.1 105 1 110 4 111 3 111 4 110 1 115 2 101 8 118.6	-24.7 -9.8 -12.4 -12.4 -15.7 -15.7 -16.9 -11.7 -44.8

OTHER CURRENCIES

Apr 19		5
Argentim	8281 70 - 8300,70	5040 00 - 5050 00
Australia	2.1260 - 2.1280	1.2930 - 1.2940
Brazil Finland	96.9490 - 98.6220 g 5120 - 6 5330	39,0000 - 60,0000
Greete	2-8 75 - 2-8.95	163.55 163.65
Hang Fore	12.8045 12.8175	7.7915 7.7935
Irad	115.80*	70.401
Norea Sthi	1149 35 - 1168 40	704 20 - 709 80
Fureals	0 48170 - 0 48230	D 29380 - 0 29400
Liu emboury	57 00 - 57 10	34 65 - 34.75 2,7170 - 2,7190
Malaysia Mairco	4,4590 - 4,4700 4596 00 - 4599 10	2797.00 2900.00
N Zealand	2 8245 - 2 8290	1 7190 - 1 7210
Sandi Ar	6 1480 - 6 1535	3 7500 - 3 7510
Singapare	3 0800 - 3 0870	1.8750 - 1.8750
SALICAN	4.3435 - 4.3545	2 6460 - 2 6475
S Af Fn? Tarwan	6 4470 - 6 5760 43 30 - 43 40	3 9215 - A 0000 25 35 - 36 40
U.A.E.	6 T450 - 6 1535	3.6720 3.6730

MONEY MARKETS

TRADING WAS subdued but

nervous on the cash money and financial futures markets

in London yesterday. The UK

Public Sector Borrowing Requirement of \$1.6bn for

March was below market esti-

mates of around £2.4bn, but sentiment was mainly influ-

enced by fears of rising infla-tion. Despite the underlying

inflationary worries a firmer

pound kept pressure off interest rates. On the other hand

UK clearing bank base lending rate

15 per cent

from October 5

long gilt futures hit record

lows on Liffe, while short

sterling futures hovered within

interbank was unchanged at

15%-15% per cent, but

nervousness in the market

pushed one-year money up to 15%-15% per cent from 15%-15%. September short

sterling has stabilised this week, after falling quite sharply. It finished 10 basis

points above the near month of

June yesterday, at 84.77, against 84.78 on Wednesday.

on the London money market. The Bank of England initially

forecast a day-to-day shortage of £900m, but revised this to

£950m at noon, and to £850m in

Credit was in short supply

sterling

a narrow range. Three-month

Nervous trading

and to Y93.30 at the finish of trading in London, from Y95.15 previously. The weakening of the D Mark was even more pronounced than the decline of the dollar against the yen. This led to a fall of several Euro-pean currencies in terms of the dollar, because of their link with the D-Mark through the European Monetary System. The dollar rose DM1.6770 from DM1.6720 and to FFr5.6375 from FFr5.6200. but eased to SFr1.4825 from SFr1.4835 against the Swiss franc, which is not a member of the EMS.

The dollar's index fell to 68.1 from 68.3. Technical factors dominated the market in the absence of fresh economic news. This was helpful to sterling, which found itself in a similar position to the yen after a period of sustained weakness. A liquidation of long positions in the dollar and D-Mark led to renewed demand for the

pound. Sterling gained 6
points to \$1.6440. The poun
also advanced to DM2.757
from DM2.7375; to FFr9.267
from FFr9.2025; and t
SFr2.4375 from SFr2.4300, but
fell to Y257.25 from Y260.5
against the strong yen. Ster
ling's index rose 0.4 to 87.1.

Trading within the EMS was subdued as attention focused on the yen. The Spanish peseta remained the strongest currency, followed by the Italian lira, which eased below its cross rate limit against the weaker members. One of the weaker EMS currencies is now the D-Mark, which traded only slightly above the Belgian and French francs yesterday, and below the Danish krone. At the London close the D-Mark had improved to L734.75 from L734.45 against the Italian currency, and was little changed at FFr3.3615, compared with FFr3.3610, in terms of the

EMS EUROPEAN CURRENCY UNIT RATES								
	Eci certral rates	Currency amounts against Eru Apr 19	% change from tented rate	e, change adjusted for divergence	Divergrace Jimit %			
Beiglan Franc Danish Krone German D-Mark French Franc Dutch Guldger Urtsh Puol (Jahan Lura Spanish Peseta	42 1679 7 79845 2 04446 6.85684 2 30358 0 763159 1529 70 132 889	42,3306 7 74006 2,04363 6 87239 2,30029 0,762821 1502,44 129,418	+0.39 -0.10 -0.04 +0.23 -0.14 -0.04 -1.78 -2.61	+0.49 0.00 +0.06 +0.33 -0.04 +0.166 -1.66	±1.5508 ±1.6453 ±1.1762 ±1.3618 ±1.5272 ±1.5689 ±1.5162 ±4.2705			

latment calculate	of by Financial	Times.		
POUND	SPOT-	FORWARD	AGAINST	THE

Apr. 19	Day s coread	Close	One month	P.A.	Tores mont/s	P.
5	1 6395 - 1 6490	1.6435 - 1.6445	0.86-0.86cpm	6.35 1.63	2.61-2.58pm	6.3
aruda leiberiansk	1 9080 - 1 9125 3 094 - 3 104	1.9105 - 1.9115 3.094 - 3.104	0.30-0.22com	6.53	0.77-0.64pm 4%-4%pm	6.
ciaum	56 80 - 57 15	97 00 - 57 10	14-15cm 24-22cm	4,84	69-650	8.7
enmark	10 47 - 10 51	10.484 - 10.494	24-25aream	3 15	9%-94 pm	3.2 3.2 6.4 -1.1
eland	1.0245 - 1.0290	1.0280 - 1.0290	0.33-0.27ppm	3.44	0 96 0 76pm	3.2
Germany	2.741 2.76	2.7512 - 2.76	15-1 երբարու	6.80	4 %-4 5 bm	6.6
ortugai	343.35 - 244.70	243.40 - 244 40	1-19cdis	-0.49	75-110dls	-1:
Nuri Ny	173.90 - 174.60 2020 4 - 2026 4	174.20 - 174.50	17-9cpm	2.96	46-33pm 15-13cm	0.9
war	10.694 - 10 734	10.71 - 10.72	24-24 orepm	2.87	75-7400	27
20CE	9 234 - 9 274	9.264 - 9.274	34-34 com	4,94	11 - 11 - 200	4.9
erden	9 98 2 - 10 02 5	10.004 - 10.014	1 le lorenn	1 27	Jh-24pm	
pan	2564 - 2594	2564 - 2574	1% 15 yom	7.87	4 %-4 % pm	7.4
ani .	19 33 - 19 39	19.35 - 19.38	91-81-grapm	5 60	29%-27% pm	5.9
dizerlana . U	243 - 2444 1.3480 - 1.3500	2.434 - 2.444 1.3480 - 1.3490	1 % - 1 cpm 0 52-0 49cpm	5.23	13-31 pm 131-1 45pm	34

reland: 1.5975 - 1.6050 1.50007 - 1.5010 0 49-0.35cpm 2.81 1.30-1.200m condum. 1.1500 1.1530 1.1615 - 1.1625 0 94-0.37ctii - 4.70 par-0.03dis istheriands: 1.8795 - 1.8873 1.8865 - 1.8873 0 10de-0.01cpm 34.50 - 37.75 34.55 - 37.75 3.00 0.00cts - 1.91 9.00-19.0dis istheriands: 1.8795 - 1.8673 1.8865 - 1.8973 0 1.00 0.00cts - 1.91 9.00 1.90 0.00cts - 1.91 9.00 0.14 0.11 0.00cts - 1.91 9.00 0.14 0.11 0.00cts - 1.91 9.00 0.14 0.11 0.00cts - 1.91 9.00 0.12 0.00cts - 1.91 9.00 0.00cts - 1.91 9.00cts - 1.91 9.00ct	Apr 19	Day's ipread	Close	One mon	rub p.a.	Torse mentis	p.a.
	rance	1.5975 - 1.6056 1.600 - 1.1650 1.8775 - 1.8875 24.50 - 34.75 24.50 - 34.75 1.6085 - 1.6775 1.6085 - 1.6775 1.6085 - 1.6775 1.6085 - 1.6775 1.6085 - 1.6785 1.6095 - 1.691 1.6095 -	1.6000 - 1.6010 1.645 - 1.625 1.8845 - 1.8875 54.65 - 1.875 54.65 - 1.875 1.6765 - 1.6775 1.6765 - 1.6775 1.6765 - 1.6775 1.6505 - 1.60.05 1.552 - 1.1212 5.515 - 6.52 5.515 - 6.52 5.616 - 5.64 6.085 - 6.09 1.784 - 11.784 1.4850 - 1.4850 1.205 - 1.2215	0 49-0 32 0 046-0.03 3.08-8.00 1.35-1.750 0 07-0 055 80-0 45-55 3 00-4 00r 1 70-2.050 0 0-0.65 2 62-2.770 0 17-0.15 par-0.40pu 0 12-0.16 0 20-0.19	181	1.30-1.20m pur-0.23dii 9.00-19.00dii A.10-4.00dii 0.14-0.110m 285-305dii 142-152dii 1.00-12-00dii 1.90-12-00dii 1.90-12-0dii 0.90-8.15dii 0.48-0.45m 0.30-0.35dii 0.50-0.57pm	6.1 4.1 0.1 7.2 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
EURO-CURRENCY INTEREST RATES							

E	URO-CL	IRREN	Y INT	REST	RATES	
Apr 19	Short. term	T Days notice	One Meenis	Three Months	Six Months	Year
Sterling US Poillar Can Bollar Can Bollar D Guilder Sw. Franc Beuschmari Fr. Franc Lialian Lina Belgian Franc Vel O Krone Assan SSing	15-14 2 80-3 2 125-127 104-4 2 104-4 2 104-4 1 104-4 1 104-	15-14% 83-86% 13-12% 84-8 10-7% 81-791 12%-1139 12%-1139 12%-1139 84-85	1800 1800 1800 1800 1800 1800 1800 1800	15.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	15-18-18-18-18-18-18-18-18-18-18-18-18-18-	1511-154 9.4-61 134-135 9.4-61 9.4-61 104-125 105-125 105-125 114-115 125-62
Long term Eurodolfar Paars 914-916 per cen	s. two years 91 comical. Shor	g-91 ₆ per cent. Luarm rates are	time years 92. call for US Doll	4.2 per cent; fo ers and Japane	ter years 9%-9 te Yea; others, b	y percent; five no days' notice.

	EXCHANGE CROSS RATES													
Apr 19	E	5	DM	Yes	F Fr.	S Fr.	HFI	Lin	CS	8 9				
£ S	D 908	1644	2.758 1.678	257.3 156.5	9 258 5 637	2.408 1.483	5 105 1,87	2026 1212	1911	177. 34				
DM YEN	0.363 3.607	0.5% 6.384	1 10 72	93.29 1000.	3.360 36.02	0.584 9.475	1,125 12,06	734 6 7874	0.693 7 427	20 221				
F Fr. S Fr.	1.079 0.410	1.774 9 674	2.976 1.131	277 6 105.5	10). 3 601	2.631 1	3.548 1.2/3	2186 631 0	2.062 0.784	싫.				
H FI. Ura	0.322 0.494	0.530 0.611	0 657 1.361	82.92 127.0	2.987 4.575	0.766 1.203	1 1.532	152,4 1000,	0.616 0.943	18. 28.				
C S B Fr.	0.525 1.753	0 000 2.862	1.443	134 b 451,0	4.850 Ib.29	1 276	1.624	1060 3551	3,300	29. 100				

the afternoon. Total help of

£709m was provided.

An early round of help was offered and at that time the

authorities bought £267m bills outright, by way of £104m bank

bills in band 1 at 14% per cent

and £163m bank bills in band 2 at 14% per cent. Before lunch

another £68m bills were purchased, via £1m Treasury bills in band I at 14% per cent;

£10m bank bills in band 1 at 14% per cent; £1m Treasury bills in band 2 at 14% per cent;

and £56m bank bills in band 2

at 14% per cent. In the afternoon £359m bills

were bought, through £169m

bank bills in band 1 at 14% per cent; £3m Treasury bills in

band 2 at 14% per cent; and £187m bank bills in band 2 at

14% per cent. Late assistance

of around £15m was also

hands, repayment of late

assistance and a take-up of

Treasury bills drained £407m, with Exchequer transactions

absorbing £605m and a rise in the note circulation £10m. These outweighed bank

balances above target of £110m. In Frankfurt call money

eased to 7.80 from 7.85 per cent

as the Bundesbank council left

official interest rates

unchanged at yesterday's council meeting. The discount

rate remains at 6 per cent and the Lombard emergency

financing rate at 8 per cent.

Bills maturing in official

provided.

LEFFE LO £50,000	ING GILT F 64ths of IA	UTURES (PTIONS		LIFFE U: \$100,000	TREASU 64ths of	RY 8980 F 100%	VIVRES	OPTIONS	LIFFE 61 94259,94	JMB FUTU 80 pekda	RES OPTE of 100%	WS.	
Strike Price 76 77 78 79 80 81 82 83 Estimates Previous 6	Calls-set Just 3-21 2-31 1-47 1-08 0-44 0-25 0-13 0-07 i volume lor iar's open in	Sep 4-35 3-52 3-09 2-35 2-02 1-37 1-14 0-59 tal. Calls :	Jan 0-11 0-21 0-37 0-62 1-34 2-15 3-03 3-61	tilements 5-ro 0-41 0-58 1-15 1-41 2-45 2-43 3-20 4-01 3-88 4-962	97 Price 97 88 89 90 91 92 93 94 Estimates Previous d	Jun 3-23 2-32 1-48 1-06 0-43 0-24 0-13 0-08	3-57 3-57 3-57 3-15 2-42 2-09 1-44 1-20 1-01 0-49 otal, Calls 20	0-15 0-24 0-40 1-00 1-35 2-16 3-05 4-00	stiements Sep 1-01 1-23 1-50 2-17 2-52 1-33 4-09 4-57	Strike Price 8050 8150 8250 8250 8350 8400 Estimated Previous 6	Jan 2.24 1.84 1.50 1.18 0.39 0.67 0.49 0.35	Sep 2.79 2.48 2.20 1.93 1.69 1.47 1.27 1.09 stal. Calls 39 stal. Calls 39	Jun 0.39 0.49 0.65 0.83 1.04 1.32 1.64 2.00 2066 Pass	tlement Sen 1.09 1.28 1.50 1.73 1.99 2.27 2.57 2.89
	IROMARK (LIFFE EL	P 44 188,	R OPTIONS			LIFFE SI £580,000	MET STE	LING OPT	IÓNS	
		%	Puts-se Just 0.03 0.05 0.30 0.21 0.39 0.60 0.64	ctiements Sep 0.13 0.19 0.28 0.42 0.57 0.76 0.96 1.19	LIFFE EL Eller pein Seriter Priter 9050 9075 9100 9125 9150 9175 9200 9225	P 44 168,	R 0911065 % Step 0 73 0.52 0.34 0.23 0.13 0.07 0.03		ttiements Sep 0.09 0.13 0.22 0.34 0.49 0.68 0.89	LEFFE SP 2500,000 52/lie Price 2375 8400 8425 8425 8475 8500 8500	paints et	HERE OPT 180% Stiements 5c9 1.14 0.75 0.57 0.41 0.21 0.21 0.15		560 0.12 0.17 0.23 0.30 0.39 0.53 0.69 0.88
Strike Prior 9050 9075 9100 9125 9150 9175 9200 9225	Calls-set Jun 0.93 0.70 0.47 0.27 0.13 0.06 0.02	% Usessents Sep 0.73 0.73 0.36 0.27 0.11 0.06 0.04 calls 1	Jun 0.01 0.03 0.05 0.15 0.21 0.39 0.60 0.64	Sep 0.13 0.19 0.28 0.42 0.57 0.76 0.96 1.19	Strike Price 9050 9075 9100 9125 9120 9225 Estimated	Calls-se Jun 0.56 0.34 0.15 0.06 0.02 0.01	stlemests Sep 0 73 0.52 0.52 0.23 0.23 0.03 0.07	Pets-95 Jun 6 0.01 0.04 0.11 0.26 0.47 0.71 0.95	Sep 0.09 0.13 0.22 0.34 0.49 0.68 0.89 1.13	5300,000 524 lac Prior 5375 8400 8425 8450 8475 8500 8525 8550 Estimated	Catis-se Jun 0.94 0.71 0.49 0.29 0.13 0.06 0.04	190% Sep 1.14 0,94 0.75 0.57 0.41 0.30 0.21	Pets-55 Jun 0.02 0.04 0.07 0.12 0.21 0.52 0.86	0.12 0.17 0.23 0.30 0.39 0.53 0.69 0.88

LONE	ON (LIF	FE)			CHICA	(CO				
20-YEA	R 9% NOTED! 32nds of 10	VAL GILT			U.S. TREASURY BOMPS (CBT) 8% \$100,000 32ms of 100%					
Jus Sep Dec Estimato Previous	Close 79-05 79-29 ed volume 282 day's open in	74.14 80-01 884 (2-883) 8 37436 (Prev 79-11 80-06	Jun Sep Oec Mar Jun Sep Dec Mar Jun Sep Dec	20-03 69-26 69-26 69-19 89-19 89-02 89-00	High 90-14 90-05 89-29 89-19 89-15 89-00	89-24 89-17 89-12 89-07 89-02 89-00	90-06 89-30 89-24 89-13 89-03 89-03 88-25 88-20	
\$100,00 Jun Seo	0 32mds of 10 Close 90-04 89-28	High 90-11	Los 89-22	Prev. 90-28 90-25	U.S. TRE	ASURY BELLS		-		
Previous	d volume 799 day's open in	4688 (4			Jun Sep Dec Mar Jun	Latest 93-18 92-12	High 92-19 92-14	71.13 92.10	92.16 92.14 92.03 91.94 91.73	
	rional, gerik 1991 i gotiks gi		DONO		 -					
Jon	Glose 82.35	High B2.75	E2 13	Pres. 82.62 82.67						

PHILADELPHIA SE £/S OPTIONS C31,250 (costs per £1)

18 YEAR 18% HOTSONAL PRINCH BOND (MATTE) PUTURES

ted rolame 78,368 Total Open Interest 79,397

THREE-WONTH PINCE FUTURES GLATUP (Park Intertant offeral rela

n 9,529 Total Open Interest 24,258

CAC-40 FUTURES CHATEF) Stock Index

Allied Trust Bank Allied Irish Bank

Bank Credit & Comm

Bank of Scotland

cit Bk of Mki East.....

Brown Shipley CL Bank Nederland

Justermon ... Citibank NA ...

May 2000.0 2121.0 Jane 2000.0 2123.0 Sentember Estimated volume 5,421. Total Open Interest 6,846

OPTION ON LONG-TIME PRESICH BONG GAATUP

101.34 101.32 101.50

5,941

2.19

BASE LENDING RATES

Descan Lawrie. 15
Equatorial Bank plc. 15
Enter Trust (1rd. 15½
Flaunchal & Gen. Bent. 15
Flaunchal & Gen. Bent. 15
First Retirent Rest Ptc. 16½
Robert Fraser & Ptars. 15
Economic Combanie. 15

Hambros Bank
 Hampchire Trust Pic
 Heritable & Gen law Bok

C. Hoare & Co. ...

♠ Hill Samue

Puts LAN

1,645

Rodunghe G'rastee Royal Bk of Scotland ...

 United 8k of Kewait ... United Mizrahi Bank Unity Trust Bank Pic

Banking & Securities Houses Association. * Deposit now 5.9% Savenise 8.5%. Top Tier-£50,000+ Instant access 13.7% & Mortgage lase rate. & Desaud deposit 9%. Mortgage 15.2% - 15.95%

200

FINANCIAL FUTURES AND OPTIONS

Dec 82.24 82.51 Estimated volume 45137 (40457) Presided sky's open int. 62149 (61163) 6% ROTTONAL LONG TERRE JAPANESE BONT.	Dec 82.24 82.51 Estimated volume 45137 (404577 Previous stay's open Int. 62149 (61163) 6% ROTIONAL LONG TERM JAPANESE GOVT. BOND Y100m 100ths of 100%		90 190tks of Close	High	Low	Pres,
Estimated volume 45137 (40457) Previous say's open int. 62149 (61163) 6% ROTTONAL LOWS TERM JAPANESE GOVT.	Estimated volume 45137 (40457) Previous sky's open int. 52149 (61163) 6% ROTIONAL LOWS TERM JAPANESE GOVT. BOND VIOUS 18816s of 100%	Jan Saa	82.35 82.20	82.75 82.53	82 21 82 13	82.62 82.47
Previous say's open int. 62149 (61163) 6* ROTIONAL LONG TERRE JAPANESE SOVT.	Previous stay's open int. 62149 (61163) 6% ROTHORAL LONG TERR JAPANESE GOVT. BOND Y190m 10916 of 100%	Dec	82.24			82.51
Class High Law Free, Jan 94.02 94.07 93.75 93.55		Previous I	DRAL LONG JOHN 1881bs	1 62149 (I	AMESE (C	Prov.

Sep Dec	9431	14.02	19114	93.84
Estimate Previous	day's open in	(132) L 715 (66	2)	
	(ONTH STER points of 1			_
Jus	Gime B4,67	High 84.69	Low IM 42	Prev. 84.69
Sep Dec Mar	84.77 85.15 85.64	85.18 85.67	04.73 95.00	54.78 15.17 85.66
Jan	86.15 86.56	86.17 86.58	86.09 86.51	Mi 17 86.58
Sep Dec Mar	85.57 87.05	86.87 87.05	86.82 86.99	86.89 07.05
Est. Vol. Previous	ting, figs. no day's open in	4 shown) 2 L 153405	7963 (233) (152592)	עי
	CONTH EURO da of 100%	DOLLAR		

THREE M	BATH EURO	DOLLAR		
Jum Sep Des Mar Jum Sep Des	Close 91.30 91.14 *0.95 90.68 90.63 90.53 90.53	High 91.31 91.16 90.99 90.95 90.71 90.65	91.27 91.11 90.93 90.81 90.67 90.62	Prey, 91.30 91.30 91.11 90.95 90.81 90.76 90.66
Est. Vol. Provious s	ling. figs. so kay's open in	t showe) 6 t. 30440 C	885 (3992) 29872)	
THREE M DM lm p	ONTH EURO Date of 100	MARK %		-

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10-10		91.06	71
		90.96 90.94	91
91.02	100,77		ÝÎ.
91.11	91.11	91.11	91
91.18 81 18	71.15	91.16	31
		90.96 90.99 91.02 91.11 91.11 91.16 91.18	90.96 90.99 90.95 91.03 91.11 91.11 91.11 91.16 91.18 91.18

	ECH Jan	pulses of 10	47		
and and and	Jun Sep Dec Mar	Close 89, 32 89, 28 89, 44 89, 59	H (本 計) 为 时, 35 时, 44	89.32 89.27 89.27	Prev. 89,39 89,50 89,65
-	Est, Imeta Provious	ed volume 323 day's open is	7 1963 nl. 4057 (4	0617	
-		00 INDEX full lastex per	lat.		
-	Jan Sep Dec	Close 2206.0 2246.0 3296.0	High 2217.0 2244.0	21% 0 2344.0	Prev. 2218.5 2258.5 2298.5

-	Jan Sep Dec	Close 2206.0 2246.0 2256.0	High 2217.0 2244,0	21% 0 23% 0	Pres. 2218.5 2258.5 2298.5
-	Previous 62	rolume 6235 y's open lat.	18751 0	2597)	
-	5001 1,6440	L-min 1,6354	3-mp. 16181	6-mth. 1.5931	12-mth. 1.5495
٠	DENE-STEEL	Jie s per			
-	Jun Sep Dec	1.62% 1.60%	High 1,6334 1,6080	1.6296 1.6040	Prin. 1.6230 1.5780 1.5744

FT LONDON INTERBANK FIXING

The firing rates are the arithmetic means rounded to the searest one-sisteenth, of the bid and offered rates for \$10m guided to the market by five reference banks at 11.00 a.m. each working day. The banks are National Westminster Bank, Bank of Tokyo, Deutsche Bank, Banke Banker Bank of Tokyo, Deutsche Bank, Banker Banker

MONEY RATES

7,45-0,10

1715-1715

LONDON MONEY RATES

Treasury Bills and Bonds

911-104 911-104 9-9-1 8-45-8-55 7-3-7-1 12-12-104 12-12-5

124-124

W.00 9 75

One Year

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(11.00 a.m. Apr.19) 3 mentes US dollars

9½ 10

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15h

1412

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7.80-7.90 91.92 9-91 8.34-8-42 72.-71 111.-12 10-101 112.-111

14%

14#

NEW YORK

Apr 19

(Lunchtime)

EUROPEAN INVESTMENT LOCATIONS

Legorie & Li.
Legorie Jaseph 15
Legorie Jaseph & Sous 15
Legorie Jaseph & Sous 15
Llegorie Jaseph 15
Meghray Basik Ltd 15
Michard Basik 13
Michard Basik 15
Michard Basik 15
Mount Basiking 15
Nat Bk. of Kossait 15

The Financial Times proposes to publish this survey on:

5th JUNE 1990

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> > or write to her at:

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FINANCIALTIMES

NOTICE OF EARLY REDEMPTION

CAISSE CENTRALE DE COOPERATION ECONOMIQUE ECU 200.800.000 GUARANTEED FLOATING RATE NOTES DUE 2006

In accordance with article 9 (b) of the terms and conditions of the Fiscal Age Agreement dated 18th August 1986, notice is bereby given that all the outstand notes will be redeemed at their principal amount on the next interest payment of falling on 28th May, 1990.

Payment of the principal amount of the notes will be made upon presentation of the notes with coupon no 16 due August 1990 and following attached at the offices of either of the following Paying Agents:

Principal Paying Agent : Banque Paribas Luxembor Boulevard Royal 10 2 L-2093 LUXEMBOURG

: Morgan Guaranty Trust Company of New York Avenue des Arts 35 B-1040 BRUSSELS

Morgan Guaranty Trust Company of New York Angel Court I Morgan House GB-EC2R 7AE LONDON

Swiss Bank Corpo Aeschenvorstadt 1 CH-4002 BASLE

On behalf of the issuer BANQUE PARIBAS LUXEMBOURG

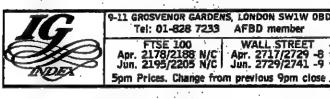
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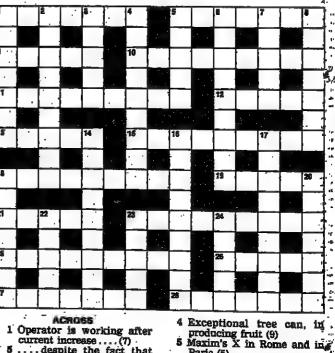


London SWIH ONW Tel: 01-799 2233 Fax: 01-799 1321

JOTTER PAD

CROSSWORD

No.7,218 Set by HIGHLANDER



ACROSS

1 Operator is working after

current increase ... (7)
5 ... despite the fact that short time is considered (7)
9 Boat caught floating platform (5)

10 Artist in copper (9)

11 Essential to bring in social worker (9)

12 Advocate putting principal news story on first page (5) 13 Join together and work very

hard (5)
15 Dean perhaps takes rice to scatter (3-6)
18 Able to soak up impact from ball without missing (9)

19 Going forward, no; in reverse, yes. Curious! (5) 21 Force rider to take paths

joining different levels (5)
23 Sunday shopping precinct
hours are of no consequence

(54)
25 Given furnishing (9)
26 All the family's children pronounced as planned (6)
27 Salary spend it all over the place (7)
28 Having little interest,
watched without shedding

tears (3-4)

1 Getting rid of coarse fabric

(7) 2 Harvest fruit crops up again (9) Intestinal problem? It is dis-

appearing: come in! (5)

Paris (5) 6 Frank said "go away" first

(9)
7 Film star. Gone with the Wind holding the key (5)
8 Initially the senior lecturer is the one to take steps (7)

14 Changes floor covering in -

fans' entrance (9)

16 Antagonised by exploding grenade engulfing street (9)

17 Touchy over cash, stated the evidence (9)

18 Fit a truss before lifting in this way (7)

22 Opinion samplers include 2 race down under (5)
23 Started with his original edf

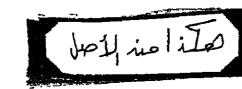
tion (5)
24 Lift next to entrance hall (5)
Solution to Puzzle No.7,217

this way (7)

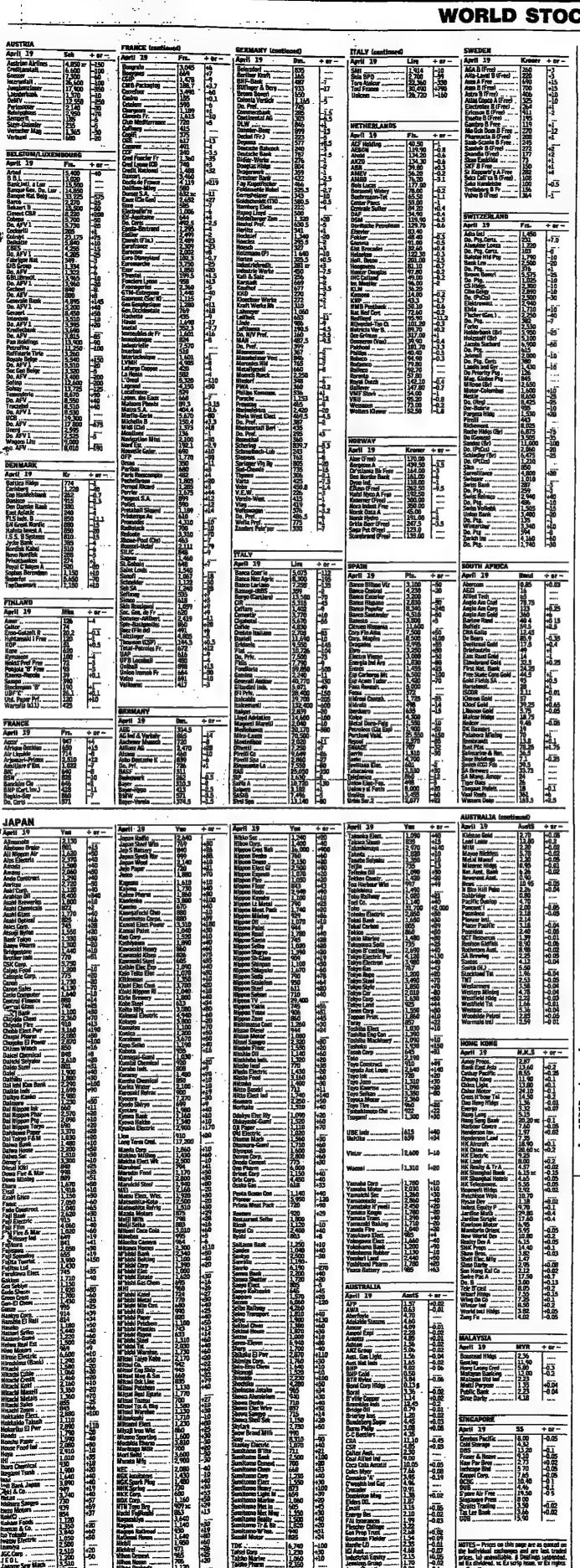
20 Bore gave up (7)

Treasury Bills (sell), one-month 14½ per cent; three months 14½ per cent; Bank Bills (sell); one-month 14½ per cent; three months 14¾ per cent; Bank Bills (sell); one-month 14¾ per cent; three months 14¾ per cent; Treasury Bills, Average tender rate of discount 14.6170 p.c ECCD Fixed Rate Sterling Export Finance Make up day March 30.1990. Agreed rates for period Agril 25 to May 25 1990. Scheme I 15.90 p.c., Schemes II & III: 16.57 p.c. Reference rate for period March 1,1990 to March 30.1990. Scheme IV&V: 15.311 p.c. Local Authority and Finance Houses seven days notice, others seven days fixed. Finance Houses Sase Rate 15½ from April 1,1990. Bank Deposit Rates for sums at seven days enclose 4 per cent. Certificates of Tay Deposit Useries 6½ Deposit £100,000 and over held under one month; 11½ per cent. one-three months 13 per cent; three-six months 13 per cent; six-aline months 13 per cent; under £100,000 11½ per cent from Oct 9,1989. Deposits withdrawn for cash 5 per cent.

علدامة الأصل



WORLD STOCK MARKETS



								INC	ICES						
NEW YOR										Apr	Apr	Apr	Apr	15	260
DOM YOUR		Apr	Apr	Apr		1990		mpilation		19	18	17	16	HIGH	LOW
	18	17	16	12	HIGH		HIGH	LOW	AUSTRALIA Ali Ordinario (1/1/80)	1495 0	1501.4	1499.2	(E)	1713 7 43/1	1495.0 (194
intestrials	2733.11	Z165.7	7 2763,00	2751.8	0 2310.19 (2/1)	25-13.24 (30/1)	2810 15 (2/1/90)	41.22 (2/7/32)	All Missing (1/1/80)	746.0	760 6	762.5	G	860 8 (5/1)	748.0 (19)
lome Bonds	B9.91	90.19	90.34	90.37	93.04	89.91	-	4445	AUSTRIA Credit Aktien (30/12/84)	657 81	667.92	673 98	ادا	703,29 (19/3)	526,59(2/)
raisport	1172.12	1185.6	1188.6	1191.5	0 1201.10	(18/4)	1532.01	12.32	BELGIUM			U13 70	-		200210012
tlitie			213.15		(5/1)	(30/1) 211.%	(5/9/89) 236.23	(8/7/32) 10.50	Brosseks SE (1/1/80)	6122.68	6122.64	614213	ig)	6549.43 (12/1)	5568.16 (26
iz ilidei	211.40	223.73	בננוג	212/6	12/1)	(3,8/4)	2/1/90	19.50 18/4/32)	DENMARK Construges SE (3/L/83)	360.32	363.79	364 40	16	380 47 (28/3)	358 77 CH
				φDs	s High 27	75.68 (2774.7	Ti Low 2722	75 (2738.29)	FINLAND					400 0 400 0	
TANDARD	AND	POO	R'S	-	-				Unites General (1975) FRANCE	592.2	596,9	601.5	ان	677.3 (23)U	590.5 (2/1
oarposite S	340,72	344.66	344,74	ж		322.98	359.80	4.40	CAC General (31/12/82)	544.45	553.79	553 07	回	554.7 (5/3)	482.94 (34)
destrials	395.81	400.29	400.42	399.90	2/IJ 411.20	(30/1) 371,92	(9/10/89) 411.20	3'93 (T(P\2S)	CAC 40 CLUZER	2047 L2	2048 68	212634	(년	2126.34 (17/4)	1800 12 06
Imacial	28.06	28,40		28.28	(2/1) 31.87	(30/1) 27.15	(2/1/90)	(21/6/32)	F42 Akiles (\$1/12/58)	793 40	802.56	809 73	(4)	830 92 (SHI	732.72 (24)
ويروي	20.00	40.40	مم	aa	31.87	(6/4)	35 24 (9/10/99)	6.64 (1/10/74)	Commerzhani, (1/12/53) DAX (30/12/87)	2340 B 1878 87	2327.6 1889 76	2349.5 1914.35	(C)	2414.0 (3/4) 1968.55 (30/3)	215L.5 (24 1756.41 (24
SE Composite	186.93	188 91	186.94	188.90	198.00	178 43	199.34	4.4h	HONG KONG	10/0.0/	1064 16	1744.33	W.	וכשנו ככ מחדו	1/30.41 (4
nou Bille Makes	987 00	204 70			(2/1)	(30/1)	(9/10/89)	(25/4/42) 29.31	Hang Song Baml (31/7/64)	3067.67	3052.35	3020,44	(년	3067.67 (19/4)	2738.24 (1
mer Mikt. Valor	353.22	394.72	356.98	357.88	382.45	345.50 (30/1)	397.03 0.07.0/99	29.31 (9/12/72)	IRELAND	1707.37	1712.77	1717 95	(4)	1843 10 (55/1)	1707.37 (14
ASDAQ Composite	431_52	435.42	456.70	436.31	460.90	410.72	485.73	54.87	ISEO Oreali 14/1/80	1101.31	1/12/1/	1/1/43	10	1843 10 (22)11	110131 0
					מוֹס	(30/1)	(9/10/89)	C1/10/720	Banca Com. Ital. (1972)	707.00	713.01	713.06		713 06 117/40	646.73 (26
		A	pr 6	Mac	30	Mar 23	year ago (moores,)	JAPAN	4004F 41	90765.54	900114	204-3-10	10713 00 44111	28002.07 (
te industrial Div	Viels	_	1.03	4.6		4.0b	36		Nakon (16/5/49) Tohro SE (Toole) (4/1/68)	29945.41 2213 49	29249 06 2167 96	2128.57	294-3 18 2129 77	38712.88 (4/1) 2867.70 (4/1)	2058 82 6
			or 11	Apr					2nd Section (4/1/66)	3551.43	3524.56	3507.80	3518.63	4284 68 19/2)	3313 92 0
				<u> </u>			year ago (MALAYSIA KLSE Composite 1414/86)	546 47	955.39	953 26	553 18	622 20 (20/2)	532.04 19
& P MOUSE OF OR			5.04 5.13	3.6 15.6		3.04 15.07	3.3 12.7		NETHERLANDS	379 97	200.54	213 20	227.10	04220 (40)25	7,32,04 (*)
		_							COS FU MAGES US 14034	258 4	259 7	258 2	lei	269 0 (3/1)	240.1 (25
EW YORK	ACTIV	E ST	OCKS		TRADII	NG ACTI	VITY		CBS All Str (End 1983) NORWAY	197.2	1984	197 6	۳	206.3 (3/1)	184.2 (25,
	Stooles	Closin	Char	98	† Volut	ne	Millions		0slo SS (2/1/83)	788.24	796.29	794.80	ഥ	845 40 (16/3)	701.67 (2)
rednesday	traded	price	on di	y		Apr 1	8 Apr 17	Apr 16	PIST IP PRIZE	1004 - 3	100470	1041 5			
	2,354,300	424	- 4		New York	147 1			Marila Comp (2/1/85)	1084.57	1094.52	1096,77	1096 02	1160 70 (21/3)	1014.09 (5
	1,975,000 1,569,400	24 L	+ 14		Ame. Kasdad	11 e 149 7			SES All-Singapore (2/4/75)	411.97	420.58	419.31	419 80	443.34 (6/2)	411.97 (19
N	1,529,500	1094	- 11		inguni Inga Trade		76 199		SOUTH AFRICA						
asa Mahhtu.	1,453,700	274	- 19		Phos	-	171 65	705	JSE Gold (28/9/78) JSE Industrial (28/9/78)	1833 OF 2873 OF	1863 G 2871 G	1801.0 2873 0	ان ن	2230.0 (76/L) 3211.0 (6/2)	1803.0 (18, 2795.0 (2)
e, Efections report B.	1,358,500 1,280,200	86 % 3 %	- : 5		Fafis Docksyssed)52 83 173 49		BOATH KOREAT	20,704	24,10	20120		ALL V GILD	2712414
d. Telecom	1,240,900	39 4	- 12		New Highs		17 2		Kores Comp Es. (4/1/80)	768.31	781.53	796.56	777 00	928 82 14/11	784.31.09
Licorp	1,215,500	24	- 5		Mer Lows		67 5		SPAIN	775.44	276.40	760.01	34774	303 0E (40)	240 17 69
rd Motor	1,211,700	48	+ %						Madrid SE (20/12/65) SWEDEN	275.66	276 49	269.91	263 74	302.85 (4/1)	248.17 (2)
		_			-				Affersarios Con. (1/2/37)	1159 60	1153.50	1146.90	ᄖ	1317 88 (12/1)	1127200
ANADA									SWITZERLAND	748.5	762.7	757 -	(=)	707.2 (11/1)	777.4.777
ORONTO		p r	Apr	Apr	Apr _		1990		Swiss Bank Hot. (31/12/58)	748 7	792.3	752.6	(6)	787 2 (11/1)	737 6 (Zi).
		18	17	16	12	HIGH		.OW	Weighted Prize (30/6/66)	B830.57	8994 40	9291.61	9419.32	12495.34 (10/2)	8830.57 (19
riale & Milweit Mecsile				1029.50 1549.30	3061,60 3561,20	3453.05 (A/) 4009 47 (3/)	2921	03 (23/2) 50 (18/4)	THAILAND	634.65	GWE 07	943.63	D45 FF	610 - 7 (61)	N. S. W. C.
F		-							Basylok SET (30/4/75) WORLD	834 99	635 90	B43.97	843.79	91£67 (S/LI	760.39 (7/2
ONTREAL Portio	in 17	B2.64 1	803.83	LB19.52	1829.33	2980.90 (3/)	.) 1782	64 (18/4)	MLS. Capital Just (1/1/70)	(12)	464.3	452.6	482,6	572 O (4)YJ	468.3 (2/4
se values of all ronto Composit i, † Excluding b	indices an te and Met outs.s indi	e 100 es als — 10 astrial,	cept NY: 100. Toro plus Util	SE AJI C Into indi Itles. Fl	iommon — ices based nancial an	50; Stundard 1975 and Mo d Transporta	and Poor's- ntreal Porti tion. (c) Clos	-10; and olio 4/1/ ed. (u)		Apr.14 Ta	nvan Welgi	ited Price	9436 12 K	ones Comp Ex 793	14

TOKYO - Most Active Stocks Thursday April 19 19G0

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3pm prices April 19

Dow stabilises after early decline in bonds

Wall Street

ANOTHER early fall in the bond market sent equities lower once again but then both shares and bonds stabilised and recovered some of their losses by midsession, writes Janet Bush in New York.

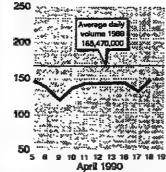
At 2pm, the Dow Jones industrial Average was quoted 5.63 lower at 2,737.25 on moderately active volume of 103m shares, having stood more than 13 points lower in mid-morning. On Wednesday, the Dow had fallen 32.89 points to 2,732.88, following the collapse of bond prices in spite of news of a sharp narrowing in the US merchandise trade deficit in February.

Both stock and bond markets were hampered by the dol-lar's slide against the yen. At midsession, the dollar was quoted at Y156.75 compared with an early high in New York of Y158.50. The markets also failed to respond posi-tively to Tokyo's sharp rise over the last two days and remained concerned that inflationary pressures in the US economy would induce the US Federal Reserve to tighten monetary policy at some stage.

The Treasury market had been down by around % point early in the session, continuing the collapse in prices on Tues day and Wednesday, but the benchmark long bond had recovered by midsession to stand around 1 lower for a yield of 8.85 per cent.

The market continued to dwell on the 0.5 per cent jump in consumer prices in March reported on Tuesday, which was higher than anyone had expected and came in spite of a significant drop in fuel costs. Corporate earnings reports continued to flood the market yesterday. Among companies reporting was Digital Equip-ment which jumped \$1% to \$81% on news that it had net

NYSE volume Daily (million)



income in its fiscal third quarter of 20 cents a share, even after a \$150m pre-tax restructuring charge. These results exceeded forecasts.

Comdisco plunged \$8 to \$18% after the company said that it expected its second quarter earnings to be as much as 25 per cent to 30 per cent lower

60 cents a share.
Oregon Steel Mills added. \$1% to \$37% after reporting net income of 89 cents a share in the first quarter compared with 59 cents a year earlier.

Dayton Hudson fell \$% to \$69% following news of its ment to acquire the Marshall Field's department store chain for more than \$1bn from the US subsidiary of Britain's BAT Industries. BAT was up \$\hata_i to \$11% on the American Stock Exchange.

American Express fell \$% to \$28% following its announcement of a \$1.50 a share loss due to a \$787m charge against first quarter earnings taken by Shearson Lehman Hutton, its

shearson Lehman Hutton, its securities subsidiary.

Charles Schwab, the discount broker, fell \$1 to \$14% after reporting net income of 14 cents a share, down slightly from a year ago and below expectations. Silicon Graphics slumped \$4% to \$30% despite

the fact that its net income surged 183 per cent from a year

Canada

TORONTO stocks fell across the board at midsession as investors became increasingly despondent about the market's outlook. The composite index plunged 49.2 or 1.4 per cent to 3,427.1, a new low for 1990, on volume of 18.01m shares. Declines led advances 447 to

dian Imperial dropped C\$1 to C\$24% and Seagram fell C\$2% to C\$99%. Oil shares dropped as the crude price weakened, with Saskatchewan falling CS% to C\$12% and Total Petroleum losing C\$% to C\$31%. Maple Leaf Gardens dived C\$4 to C\$33 on news that its majority shareholder, Harold Ballard, who died recently, left his stake to a charitable trust

to 588.3 in light trading.
MADRID attracted profittaking after its recent strength,

with the general index losing 0.83 to 275.66 by the end of pit trading and slipping to 274.33 by the close of the continuous

to Pta3,800, with one block of 213,500 shares traded. The bank signed a co-operation agree-

Veneto of Italy on Wednesday.

STRONGER GOLD shares led

Johannesburg higher after a rise in the bullion price to

about \$377, but trading stayed thin. The JSE overall index rose 14 to 3,112. Vaal Reefs firmed R6 to R361 but De

SOUTH AFRICA

sion. Banesto edged up Pta5

ent with Banco Ambrosiano

New York weakness leaves bourses subdued

WEAKNESS on Wall Street counted for more than Tokyo's recovery in influencing contineutal sentiment yesterday. and hourses were mostly in a subdued mood, writes Our Mar-

hets Stoff.
FRANKFURT closed above its intrasession lows, the DAX index ending 10.89, or 0.6 per cent. lower at 1,878.87 after a fall of 9.10, or 1.1 per cent. in the FAZ at midsession. Volume fell from DM6bn to DM5.55n.

Wall Street's weakness mixed with ongoing nervousness about German monetary union. Blue chips led the market lower, as Siemens dropped DMS to DM762, Daimler DM13 to DM899 and Deutsche Bank DM4.50 to DM787.

Siemens replaced Mannesmann at the top of the individcal volumes chart, in turnover of DM593m. Mannesmann stayed high on the list, third with DM464m and falling another DM2 to DM367. although a number of its followers said worries over its Brazilian interests had been overstated.

Signs of resilience elsewhere were exaggerated by a thin Allianz rose DM28 to DM2.470 and Munich Re DM22 to DM2.252, but it took only small buy orders to achieve this effect. In chemicals, BASF was steady at DM311 after raising its dividend to DM13, plus a DM1 bonus, from DM12.

PARIS showed resistance in the face of a weak bond mar-ket, Wall Street's declines and profit-taking before the end of the monthly trading account today, regaining most of its early losses to close only slightly lower on international buying. The CAC 40 index ended 1.56 down at 2,097.12,

after falling to 2,072.77 earlier. Turnover was estimated as less than the previous day's level at FFr2.3bn, supported by volume in CGE, which dropped FF713 to FFr617 with 390,100 shares traded after it announced details of a

FFr5.6bn convertible bond. The retail sector attracted interest, with Docks de France gaining FFr219 to FFr4,119 after its recent underperformance, and CFAO rising FFr15 to FFr650 after Tuesday's news of the sale of La Ruche Meridionale, the retail group, to Casino. Volume in CFAO was relatively heavy, with 61,760 shares traded.

Peugeot gained FFr12 to FFr399 on 287,400 shares after the previous day's results. Analysts were encouraged by the company's less pessimistic forecasts for the current year. GTM-Entrepose lost PFr40 to FFr1,440 on profit-taking, after rising on the previous day's news of an increase in earnings and a bullish statement on its order books.

MILAN eased as professionals squared positions, anticipating a volatile market in the next two weeks when several national holidays occur and in the run up to the May local elections. But local brokers expected the market to regain its strength after the elections, as companies paid out divi-dends for 1989 and the publicity for the World Cup series

Volume shrank as interna-tional and domestic investors retreated to the sidelines. The Comit index fell 6.01 to 707. Olivetti featured, closing L7 higher at L7,250 and rising to L7,285 in the after-market on continued speculation of a link-up with Philips, the Dutch group, and rumours that the company's 1989 results, due on April 27, would not be as dire as analysts expected. Montedison also bucked the general

pointed with transport group Nedlloyd's 1989 profits, which were boosted by extraordinary items, and the company's fore-casts that 1990 operating profits would be flat. The stock fell Fl 11.20 to Fl 95.90. In the same sector. Internatio-Mueller was stable at Fl 96 before reporting

STOCKHOLM was led higher by the engineering stock, Alfa Laval, which was the subject of a favourable US magazine report. Its free B shares rose SKr3 to SKr220. Interest in Ericsson remained strong although the free B shares fell SKr3 to SKr911 after hitting a high of SKr918. The weighted Affärsvärlden General index

item, and seemed to ignore another. Ascom, the telecoms company, rose SFr50 to SFr3,050 after it said it planned to eliminate 1,000 jobs in Switzerland over the next two years. In foods, Jacobs Suchard trend, adding L18 to 1.2,020 at the close and reaching L2,038 bearers fell SFr50 to SFr6,900, after-hours. although it forecast a sharp rebound in profits this year. The Crédit Suisse index fell 4.0 AMSTERDAM was disap-

a 27 per cent rise in 1989 profit to F156.1m after the market closed. The CBS tendency index dropped 1.4 to 118.8 in

Nikkei rises confidently as volume nearly doubles

CONFIDENCE came back to Japanese equities yesterday. as the yen edged up against the dollar. Turnover virtually doubled and a wave of buying took the Nikkei average above 30,000 at one stage, writes Michiyo Nakamoto in Tokyo. Riding on Wednesday's suc-cess, the market took off to a

flying start, posting a 400-point gain in the first 15 minutes of trading and keeping up the momentum all day.

After moving between a low of 29,296.25 and a high of 30,034.45 in mid-afternoon, the Nikkei closed 696.85 up at 29,945.41. Advances led declines by 855 to 141 with 103 unchanged. Turnover rose from 488m to 968m shares. The Topix index of all listed stocks advanced 45.53 to 2,213.49 and, in London, the ISE/Nikkei 50

index rose 7.00 to 1,720.39.
The yen's strong advance against the dollar, on the over-night New York market and during the day in Tokyo, had buoyed investor confidence in both bonds and equities, said Mr Shoin Yokoyama at Crédit Snisse Investment Advisory.
This strength was the more

expected that a reduction in the US trade deficit would lead to buying of the dollar. They were increasingly convinced that the worst was over, he said, and that a bottom had been reached, at least for now. There was widespread talk that the authorities were

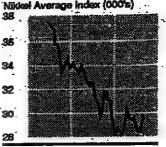
encouraging Japanese institu-tions to unload their US trea-sury holdings and support the yen. In the recent past, faced with slumping markets at home, the institutions have been persistent sellers of US treasuries. "You have to take your profits where you find

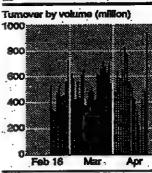
them," said one foreign trader.
Yesterday's buying spree
was led by issues supported by
domestic demand, particularly
the big steels and shipbuilders. Interest in these was due to their bargain prices and to the yen's recovery; the Stock Exchange suspended trading in some stocks to restore order. Nippon Steel closed Y20 higher at Y611, while Mitsubishi Heavy Industries added Y26

to Y968. Riectricals succumbed

to profit taking as Sony lost Y90 to Y8,310, NEC Y40 to Y2,080 and Pioneer Y120 to Y5,950. It's not their market," said one salesman. "The market's all of a sudden gone

Japan Nikkei Average Index (000's)





Osaka saw similar enthusiasm supporting a gain in the OSE average of 669.65 to 31,732.79. Volume rose from 42.7m to 59.6m shares.

Roundup

PERFORMANCE in the region was mixed yesterday, with depression out of fashion in Hong Kong, South Korea fear-ful, and Taiwan demonstrating

its volatility on the downside. HONG KONG rose for the fifth day in a row on continued overseas demand for blue chips, but the market was restrained by declines in banks and utilities. The Hang Sengindex rose 15.32 to 3,067.67. Turnover grew to HK\$1.83hn, the highest level since early February, from Wednesday's HK\$1.55bn.

Hongkong Bank dropped 15 cents to HK\$6.15 following news late on Wednesday that first quarter profits at its US subsidiary, Marine Midland Bank, plunged 85 per cent to

TAIWAN fell for the sixth consecutive session but came off the day's lows on last minute buying. The weighted index shed 163.83 to 8.830.57 after a low of 8.652.57. Volume rose to NT\$84bn from NT\$6bn. The market was still depressed by weakness in the banking sector due to the Government's current sale of part of its stakes in three commercial banks, which will drain nearly

NT\$26bn from the market. SEOUL fell across the board as investors sold to settle stock transactions. The composite index lost 13.22 to 768.31, the lowest level since November. 1988, on weak volume of 7.8m shares valued at 136.7bn won. Dealers feared that the market would face a serious crisis if the index went below 750.

NEW ZEALAND fell at the start, following Wall Street's drop, but recovered thanks to offshore buying of leading stocks and Tokyo's gains. The Barclays index rose 8.94 to 1,727.61 Turnover improved to 8.6m shares valued at NZ\$17.8m from 7.6m shares val-

ued at NZ\$12.3m.
Goodman Fielder Wattle recovered 7 cents to NZ\$1.95 and Brierley Investments rose 2 cents to NZ\$1.61, after news that it planned to bid for a majority interest in the state-owned Telecom Corp. AUSTRALIA was dragged

AUSTRALIA was dragged down by Wall Street and by a rising local dollar, which weighed on mining stocks, But Tokyo's rise helped pull prices off their lows, and the All Ordinaries index rebounded from 1490 to close 64 lower at 1.490.9 to close 6.4 lower at 1,495.0. Turnover rose to 75m shares and A\$205m from 66m and A\$174m. CRA, ex dividend of 38 cents a share, shed a net

or 38 cents a snare, shed a net 12 cents to A\$11.05. SINGAPORE slipped as stop-loss selling hit a thin mar-ket. Turnover fell to 31.7m shares, worth \$\$64.8m, from from Tuesday's 34.2m shares, worth \$\$80.8m. The Straits Times Indextrial index lost 5.09 KUALA LUMPUR also fell as

turnover shrank to 20.5m shares from 23.7m; the composthe index eased 3.92 to 546.47.

BOMBAY fell on end-of-account considerations, the BSE index losing 14.61 to 759.15 after two days of rises.

Switzerland begins to catch up

Jacqueline Moore examines European turnover figures for March

ARCH WAS a stable month for European bourses in terms of turnover, with only Switzerland making a significant improvement. West Germany remained extremely busy. although some other continen-tal markets showed signs of attracting a larger slice of the

investment action.

Most bourses again decided that Tokyo's wild swings were of interest mainly to the Far East. There was some nervousness, but trading volumes were steady throughout most of Europe. Slight gains over February's levels in West Germany, France and the UK can be attributed to the fact that there were two more trading days lost month.

West Germany was very active once again, as the opening up of East Germany continued to occupy investors' minds. Turnover last month rose by 5.7 per cent over February - a huge increase compared with the DM63.9bn recorded in March 1989. In dollar terms. German turnover reached \$132.2bn, more than

EUROPEAN EQUITIES TURNOVER Monthly total in local currencies (bn)					
Bourse	Dec 1989	Jan 1990	Feb 1990	Mæ 1990	US \$bn
Beigium	58.7	52.2	67.2	50.8	1,7
France	131.7	129.1	105.8	107.0	10.9
Germany	157.1	224.4	211.0	223.0	132.2
Italy	13,640	21,228	14.377	15,913	12.8
Netherlands	10.6	18.3	12.4	12.4	6.6
Spain	443.4	497.0	381.1	368.4	3.4
Switzerland	15.4	20.4	20.0	24.4	16.3
UK	27.1	30.7	22.8	23.8	393

immediately afterwards. On the 19th, for example, turnover more than doubled from the previous trading day's level to DM13.9bn. Frankfurt's key indices, the FAZ and the DAX. hit records at the end of the

Volumes represent purchases and sales. Swiss and Belgian date estimated. Italian date adjusted to include off-market trading. Some figures may be revised. Source, County NatWest WoodMac. up with the pace of trading in West Germany and enjoyed its busiest month since July last year. Turnover shot up by 22 per cent in March from Februthree times as high as in the UK market, and nearly seven times bigger than in France. March was the month of the East German elections: turnover slipped before the March 18 poll, but picked up again ary's figure. "Switzerland had been extremely feeble (in terms of volume) and weak in terms

mal levels," says Mr James Cornish of County NatWest. The market also responded month, with active domestic and Japanese buying. to specific news stories, which generated volume but did not Switzerland began to catch move the stock index signifi-

of price, but domestic and for-eign buying last month helped

turnover to rise to more nor-

cantly. For example, a rights ronnced by Riomi Boveri, the engineering com-pany, on March 22 caused sellwave of buying at the cheaper

choosing to concentrate on West Germany, before the Bank of France cut its inter-

ing of the stock, followed by a price level, says one observer. Other stocks attracting active interest included those in the mechanical engineering and building sectors, which gained from their prospects in East France looked rather dull in March, but turnover neverthe-

vention rate on April 2.

Turnover in Italy picked up as the big Italian unit trusts took some money out of the market, while some foreign buying interest returned,

less rose 3.1 per cent above February's level. Foreigners had not yet rediscovered the market in great numbers,

according to Mr Cornish. Belgium, February's winner in volume terms, fell 9.5 per

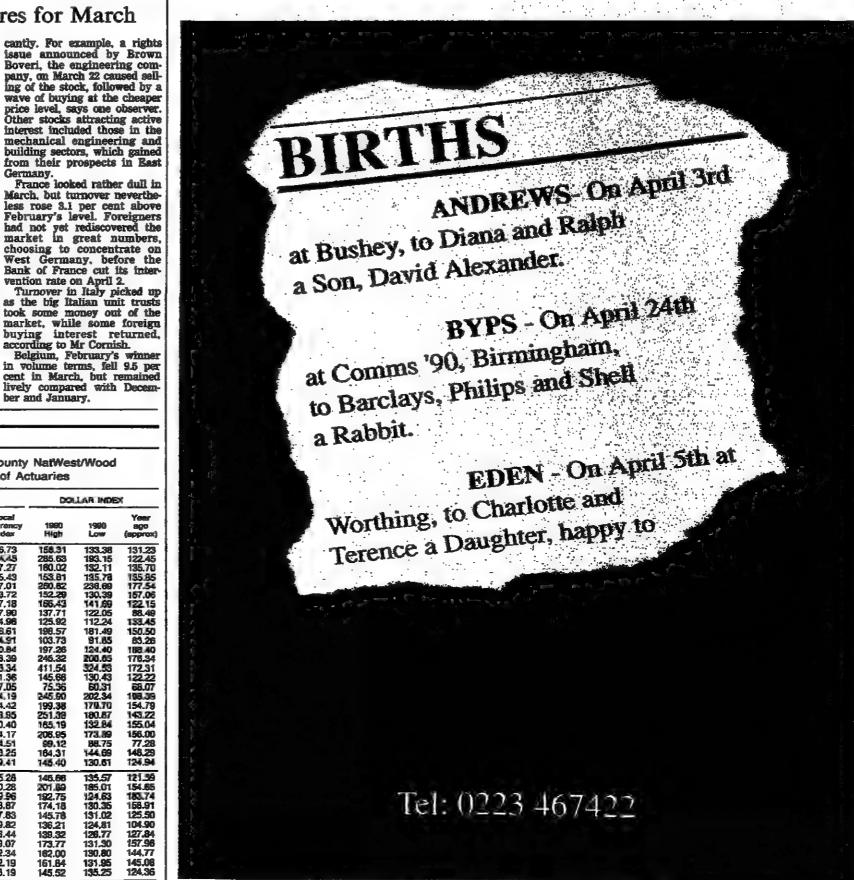
FT-ACTUARIES WORLD INDICES

Jointly compiled by The Financial Times Limited, Goldman, Sachs & Co., and County NatWest/Wood Mackenzie in conjunction with the Institute of Actuaries and the Faculty of Actuaries

REGIONAL MARKETS _		WED	NESDAY A	PRIL 18 19	90		TUESD	AY APRIL 17	1990	DOI	LAR INDE	×
Figures in parenthoses show number of slocks per grouping	2U ralioQ xebni	Day's Change	Found Sterling Index	Local Currency Index	Day's change % local currency	Gross Div. Yield	US Dollar Index	Pound Sterling Index	Local Currency Index	1980 High	1980 Low	Year age (approx)
Australia (81)	134.88	+0.4	122.12	116.94	÷0.2	5 92	134.28	121.80	116.73	158.31	133.38	131.23
Austria (19)	279.60	- 0.2	253 15	242.90	~06	1.10	280.25	254,21	244.45	285.63	193.15	122.45
Belgium (61)	148.36	~ 0.1	134.33	126.77	-0.4	4.55	148.52	134.71	127.27	160.02	132.11	135.70
Canada (120)	135.78	- 0.5	122.94	114.30	- 1.0	3.52	136.47	123.79	115.43	153.81	135.78	135.85
Denmark (36)	248.26	-04	224 77	215.08	- 0.9	1.50	249,21	226.05	217.01	250.82	238.69	177.54
Finland (26)	136 36	+ 0.4	123.46	173.74	+ 0.0	2.41	135.87	123.24	113.72	152.29	130,39	157.06
France (125)	165.21	- 0.7	149.58	145.64	-1.0	2.72	166.43	150.96	147.18	186,43	141.69	122.15
West Germany (94)	134.35	-07	121.64	116.78	-09	1.85	135.23	122.66	117.90	137.71	122.05	88.49
Hong Kong (48)	125 92	+0.8	114 01	125.99	+0.8	4.94	124.87	113.26	124.96	125.92	112.24	133.45
ireland (17)	188.96	+02	171 09	166.15	- 0.3	2.59	188.60	171.07	168.61	198.57	181.49	150.50
Italy (96)	103.73	+06	93.92	95 13	+ 0.2	2.42	103.12	93.53	94.91	103.73	91.85	83.26
Japan (454)	132 70	+ 2.5	120.15	133 46	÷ 2.0	0.62	129:45	117.42	130.84	197.26	124,40	183.40
Malaysia (35)	215.80	- 0.6	195.39	225.90	- 0.7	2.38	217.02	196.85	228.39	245.32	200.65	175,34
Mexico (13)	410.55	- 0.2	371.72	1250 35	- 0.2	0.41	411.54	373.29	1253.34	411.54	324.53	172.31
Pletherland (43)	141.94	-08	128.51	121.98	+0.5	4 63	140.84	127.75	121.36	145.66	130,43	122.22
New Zealand (17)	61.84	- 0.5	55,99	56.74	-0.5	7.73	62.12	56.35	57.05	75.36	60.31	68.07
florway (25)	231 52	+ 0.6	209.62	204.65	+ 0.2	1 63	230.03	208.85	204, 19	245.90	202.34	198,39
Singapore (26)	190.66	+ 0.4	172.62	165.04	+ 0.4	1.82	189.99	172.33	164.42	199.38	179.70	154.79
South Africa (60)	184.58	+ 0.7	167.12	159.79	- 0.1	3.70	183,30	166.27	159.95	251,38	180.87	143.22
Spain (42)	153 32	÷ 2.9	138 82	123.18	+ 2.3	4.31	149.02	135.17	120.40	165,19	132.84	155,04
Sweden (35)	185.10	+21	167.59	166.81	+1.6	2 36	181.35	1 6 4.49	164.17	206.95	173.89	156.00
Switzerland (65) .	U1.68	+01	82.91	84.22	- 0.3	2 33	91.48	82.98	84.51	99,12	88.75	77.28
United Kingdom (306)	146.71	- 0.1	132,83	132.83	-0.3	4.97	146,90	133.25	133.25	164.31	144,69	148.29
USA (537)	137.79	- 1.2	124.76	137.79	- 1.2	3 48	139.41	126.45	139,41	145.40	130.61	124.94
Europe (990)	141 43	+00	128.05	124,88	- 0.3	3.54	141.48	128.33	125.28	145.66	135,57	121.59
Nordic (122)	189.24	+08	171.34	160.84	+0.4	1,83	187.71	170.26	160.28	201.89	185.01	154.85
Pacific Besin (661)	132 49	÷24	119.96	132.40	+ 1.9	0.96	129,44	117.41	129.96	192.75	124.63	183.74
Eura – Pacific (1651)	136.46	+13	123.55	130.08	+ 0.9	2.05	134.66	122.14	128.87	174.18	130.35	158.91
North America (667)	137.57	- 1.1	124.5 6	136.25	~ 1.1	3.48	139.13	126.20	137.83	145.78	131.02	125.50
Europe Ev UK (684)	136.21	+ 0.0	123.33	119.43	-0.3	2.71	136.18	123.52	119.82	136.21	124,81	104.90
Pacific Ex. Japan (207)	129.24	-0.5	117.01	116 83	+0.3	5.18	128.62	116.67	116.44	139.32	126,77	127.84
World Ex. US (1844)	137 06	+ 1.3	124,10	130.17	+09	2.11	135 35	122.77	129.07	173.77	131.30	157.96
World E. UK (2075)	135.23	+ 0.5	122 43	132.59	÷0.2	2.34	134.61	122.10	132.34	162.00	130.80	144,77
World Ex. So. Al. (2321) .	135.94	+0.4	123 08	132.38	+0.1	2.58	135,40	122.82	132.19	161.84	131.95	145.08
World Ex. Japan (1927)	139.45	- 0.đ	126.26	132.19	-0.8	3.57	140.31	127.27	133.19	145.52	135.25	124.36
The World Index (2381)	136.24	+0.4	123.35	132 57	+0.1	2 59	135.69	123.08	132,39	162.05	132.25	145.07

Copyright, The Financial Times Limited, Goldman, Sachs & Co. and County NatWest Securities Limited, 1987 Constituent changes 19/4/90: Insertion: Den Norske Bank (Norway). Deletions: Bergen Bank and Den Norske Creditbank (both Norway).

Latest prices were unavailable for this edition.



SECTION IV



Prospects for the international gas industry are looking increasingly bright. even though there

are longer-term uncertainties for many sections of the industry, as Steven Butler explains here.

Confidence is rising

OPTIMISM has rarely rup so high in the worldwide natural gas industry. On both sides of the Atlantic, forecasters are busily cranking out ever higher demand-growth numbers, ranging into the next can-

The reason is simple: gas is the most environmentally benign of all the world's principal energy sources. For the same amount of energy, gas produces only half the carbon dioxide of coal, and two-thirds that of oil. Although gas often contains sulphur when produced, this serious pollutant is removed with relative ease before combustion. Particulate matter and nitrogen oxides emmissions are small.

Meanwhile, new technologies have increased the economic attractions of gas by sharply lifting efficiency. Combined-cycle gas turbine technology can achieve thermal efficiencies of close to 50 per cent for electric-ity generation. Technologies on the drawing board promise the-oretical efficiencies of 60 per-cent, which can be lifted still nigher when waste heat is used

for space-heating purposes When compared to the best that can be achieved for coel -37 per cent, plus the cost of cleaning up emmission from coal-fired stations - the advantages of gas are obvious. It is no accident that the bigest growth area in everyone's forecasts is gas burned for

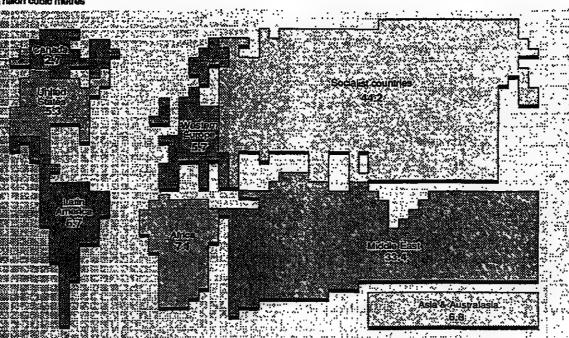
power generation. In Washington, the American Gas Association (AGA) is now talking about the possibility that US consumption could rise by more than 50 per cent by the year 2010 to 30 quads (roughly equivalent to 30 trillion cubic

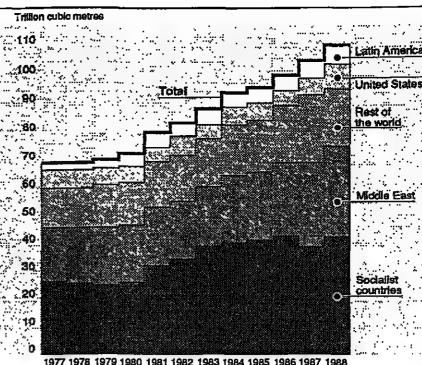
feet, (tcf). In Europe, some oil compa-nies are looking at a possible increase of similar magnitude to 350bn cubic metres (bcm) annually in 20 years. These are enormous increases and they beg the question of whether the gas industries in either Europe or North America are prepared to respond, or indeed, whether these high case scenarios are in any way realistic

The questions are obviously linked. The worldwide oil industry is still suffering financially from the last time it believed and acted on the basis of optimistic demand forecasts. It will undoubtedly want to see clear evidence of firm prices and secure markets before plunging in again.
Yet excessively high prices

could kill demand. Optimism about future consumption trends is supported by a grow-ing concensus that the world's reserves of natural gas may be more abundant than was previously thought. Gas was once a nuisance, encountered in the search for oil. Yet it has now become a prize if found close to markets or near to developed

Naturai gas : proved reserves (et end 1988)





■ The Soviet Union and the Middle East dominate the world map of proven reserves of natural gas. Together, they account for nearly two-thirds of the world's reserves.

■ Natural gas reserves have shown a steady upward trend through the last decade, with most of the growth being registered in eastern Europe - predominantly, the Soviet Union.

THE GAS INDUSTRY

Europe looks most secure. The UK has proven reserves that will keep it self-sufficient in gas until well into the next century, with many in the industry believing that the UK could supply its needs for 30 years without fresh imports. European Community gas reserves are less abundant, with the notable exception of the Netherlands, which plans to halt gas exports in 2010. However, Norway, the Soviet

The reserves situation in

Union and Algeria each has vast proven reserves that could potentially satisfy Europe's gas needs for many decades even if demand rises sharply. If Nigerian and Middle Eastern gas is factored into the equation, there is no question of Europe's gas supply running out for the forseeable future. In the US, the reserves pic-

ture is more complex. With few exceptions, US proved reserves of natural gas have declined every year since 1967, and at the end of 1968 had a produc-tion life of just over 11 years. Yet over this period, despite the drop in reserves and exploration for gas, estimates for potential resources issued by the American Gas Association and the US Department of Energy (DOE) have been buoyant. The DOE, for example, estimates US technically-recov

erable gas at 996 tcf, enough to

supply 50 years of US consump-

If these estimates are accepted, and combined with large proven reserves in Canada, Mexico, and Vene-zuela, which could supply the US market, local and regional gas reserves are potentially

Yet estimating and finding reserves is one thing, deliver-ing them to market is another. The US has still not settled down from a decade of regula-tory turmoil that has prodded the big US gas transmission companies into operating as open-access carriers, transporting gas on a non-discrimina-tory basis for any third party. The system allows large con-

sumers at the end of a pipeline to choose among competing suppliers and makes gas-to-gas competition a reality. Open access transportation

took root during a period of abundant supplies, weak prices, and falling consumption, all of which left pipelines searching for ways to lift gas Although officials in Washington, who pushed through

changes in the regulatory sys-

tem, dismiss suggestions from

sceptics that it may not cope affectively during a period of rising demand and tightening

Commission, has expressed long-term contracts which open access has brought about. Britain has also embarked on its own open-access experi-

supplies, this remains to be

In Houston, the gas produc-

ment in which British Gas is required to transport gas for supply to industrial customers. Because British Gas is an integrated monopoly, with no competitors yet in gas transmis-sion or local distribution, the ever be realised in the UK when British Gas so dominates the market. The ending of Brit-

It remains an open question whether the full theoretical

benefits of competition will

tion capital, there is continued despondency over persistent low prices, the ultimate cause of depressed drilling levels. ish Gas's purchase monopoly and allowing others to build and fear that an eventual rightening of the market could competing pipelines may turn out to be at least as important cause prices to soar and provoke Congressional intervenfactor for competition as forc-ON OTHER PAGES ■ European suppliers; West Germany; Norway
■ US gas industry; key indicators

Electrical power generation: environmental issues; industrial gas in the UK; prospects for British Gas

Editorial production: Michael Wiltshire tion. Mr Martin Allday, recently appointed chairman of the Federal Energy Regulatory concern about the death of

shape of gas competition in the UK will be very different,

ing British Gas to transport

gas for others. On the continent, the gas industry has launched a vigor-ous campaign to defeat EC moves to open up the Euro-pean industry to mandatory common-carriage rules. A draft proposal that would require pipelines to carry gas for other pipelines is seen as the thin edge of a wedge that would open the industry completely. The gas industry has argued

that mandatory common carriage is incompatible with the ment needed to develop new

supplies for Europe. Opposing this, however, the European chemicals industry looks with envy on US companies' ability to negotiate directly with a gas supplier of choice. They argue that lower prices would stimu-late demand and that the supply would be forthcoming on a scale the current system could

The outcome of the debate in Europe, which will be decided by the European Parliament and the Council of Ministers, is impossible to call. Should common carriage be introduced, however, just as in the US and the UK, the changes would certainly lead to unpredictable consequences as system continues to be refined until it works. The simplest part of the gas industry equation appears to be demand. Yet while the direction is clear, the magnitude of potential growth

remains in a deep fog. Uncertainty is generated by ronmental legislation and regulations wend their way through the political process.

Adventurous schemes for gas, such as using compressed natural gas as a vehicle fuel, tion. This already appears an

attractive option for urban mass-transit vehicle fleets, where air pollution is a severe problem. The AGA calculates that natural gas is only about 64 per cent the price of petrol, enough to compensate for the cost of converting engines. There is even talk of installing fuel switching capability on vehicles so that consumers can choose the cheaper fuel. However, some environmentalists worry that running the family car on natural gas would increase the danger of methane

In the US, the demand plo ture is beginning to clear with Senate approval for the Clean Air Act. Yet until the bill makes its way through the House - and more is known industries looking at energy-intensive investments will not be ables of different fuels.

Similarly, in Europe, the full cost to the user of burning more highly polluting fuels is only gradually becoming clear. A sharp rise in oil prices, which many expect, would drive up the price of gas and make coal more attractive.

These uncertainties ning from production to deliv-ery and final demand - will make the coming years full of risk for many participants in the industry. Yet they do not change the broad outlook that natural gas is on a path of

The way to solve the future puzzle

Nobody can accurately predict the future opportunities and risks for the international gas industry. But risks can be lessened and opportunities increased by cooperation with an organisation of international stature and achievement.

Ruhrgas is a large and experienced participant in the international gas business. As the most significant supplier in West Germany -Europe's largest net importer of natural gas -Ruhrgas has been instrumental in the growth of international gas trading.

Within West Germany Ruhrgas has vigorously and continuously promoted the application of natural gas in a competitive energy market.

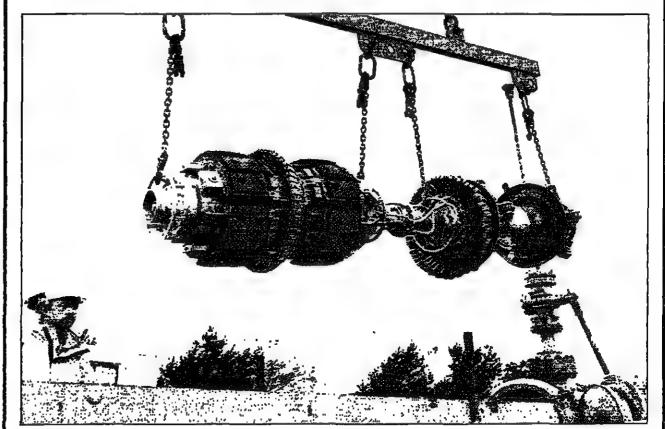
Over the years, Ruhrgas has pioneered many of the key developments in the gas industry and has advanced the cause of the environment. Ruhrgas works to serve the interests not just of its customers but of its suppliers as well - working reliably and efficiently to ensure that everyone shares the benefits of natural gas.

The future complexities facing the international gas industry and the need for competence and experience define the natural solution - cooperation with Ruhrgas.

Ruhrgas Aktiengesellschaft · Huttropstr. 60 4300 Essen 1 - West Germany

Ruhr gas Delivering the benefits of natural gas

OUR NAME NEEDS NO INTRODUCTION



UR REPORTS NEED NO INTERPRETATION

the owner and operator of 17,000 kilometres of high pressure gas transmission pipeline, British Gas is acutely aware of the critical importance of maintaining a supply system in a sound structural condition.

Such considerations have led to the development by its On Line Inspection Centre of the world's most technologically advanced online inspection system which accurately identifies pipeline defects without disrupting delivery schedules.

Dimensions are given for pipeline corrosion and metal loss features, and detailed reports of pipeline condition can be presented in a variety of formats. These options permit the pipeline engineer to determine immediately the operational integrity and maintenance priorities of all oil and gas systems without the need for any form of secondary investigation.

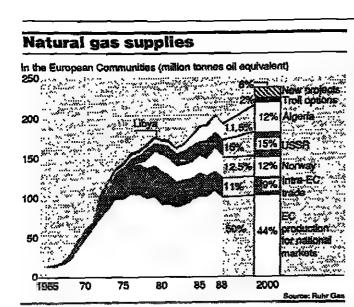
When your reputation is on the line - you can depend on On-Line Inspection by British Gas.



British Gas On Line Inspection Centre, Cramlington, Northumberland NE23 9EC

Telephone: (0670) 713401. Telex: 537945. Facsimile: 0670 735893.

THE INTELLIGENT ALTERNATIVE IN ASSESSING DEFECT SIGNIFICANCE



Natural gas consumption 1970 70 85 88 1988

Steven Butler on problems facing the European gas industry

Anxiety among suppliers

gas industry - from producers to gas transmission companies has shivered in horror at the thought that what has hap-pened in the US could ever happen on the continent. Yet under the banner of pro-

moting competition and cross-border trade, the European Community may force open the pipelines to third party transporters paying a fee for service, much as in the US

Currently, pipelines act as merchants, purchasing gas passing through pipelines and selling it to customers within territorial monopolies. EC bureaucrats ideologically

disposed to free markets are leading the reform. They are supported by the European chemical industry whose motive is far simpler: it wants

The simple step of requiring pipelines to transport gas for others is far more revolutionary than it appears. The European gas industry has been built and financed on the basis of long-term contracts lasting up to 25 years.

The contracts have proved flexible instruments that have adjusted to changing market conditions: when oil prices sank, gas producers accepted lower prices and volumes stayed high. The security of these con-

tracts helped mobilise billions of dollars in finance to develop fields and build delivery systems from Siberia. Norway and Algeria. Transmission companies, such as Ruhrgas in Germany, Gaz de France. or SNAM in Italy, have confidently made long term commitments because they had con-

They now fear that if customers have rights to purchase gas direct from suppliers, they

the West German gas market is

shaping up in the backyard of Ruhrgas, the biggest of the

German gas companies and

one of the dominant players in

Wintershall, part of the

BASF chemicals group, is pro-posing to build a 560km pipe-line from Emden to Ludwig-

shafen that would put it in

position potentially to compete

directly for Rurhgas custom-

Oddly enough, Ruhrgas appears to like the idea, or at least some of the principles behind it. Rurhgas knows, of

course, that the odds may be against the Wintershall pipe-

line ever being built. But to

have a bit of prospective gas-to-gas competition on the hori-

local distribution companies.

Even supply to residential

and commercial customers.

try is competitive.

counted.

Ецгоре.

will lose market share and default on purchase commitments with producers. This is precisely what did happen in the US, leading to billions of dollars in liabilities. The pipelines argue further that future large-scale development of the transmission network will be impossible to finance without long term contracts. Other industries cannot make such commitments. These arguments are surely valid as far as they go. Yet industry critics also have a powerful case. The chemical industry says it does not need the same bundled ser-

believes that this is a choice the consumer ought to be able to make. The arguments for and against open access has been played out in increasingly polemical tones. The EC commissioned Coopers and Lybrand to look at the debate,
The study was not a robust

defence of open access. Indeed to many readers it looked like a systematic critique. None the less the EC asked for a follow up to quantify potential bene-fits of open access, assuming the potential could be realised These were found to be about two per cent of gas costs. Com-

The move to reform the industry is led by EC bureaucrats ideologically disposed to free markets.

WEST GERMAN MARKET

Preparing for battle

The West German market, with over 500 local

vices aimed at achieving the security of supply required by household and commercial customers. Why should it be forced to pay for it?

Mr Alan Wilson, of Dow Chemical, argued at a recent conference that the industry displays many of the undesirable features of monopoly. Prices, for example, are set at the maximum determined by the alternative fuel - rather than by competition among

suppliers. CEFIC, the federation of European chemical industries, says the gas industry has invested in massive redundant storage capacity to meet unlikely contingencies. These costs are passed on to customers, whether they need this insurance or not.

Mr Jonathan Stern, a gas specialist at the Royal Institute of International Affairs, argues in the similar vein. He says choice of direct purchase would reduce security of supply for the consumer. Yet he

The German Government.

unlike others, has always

accepted that inter-fuel compe-

tition both in the household

and industrial sector provides

sufficient competition to stimu-

late an efficient industry and

protect consumers. This, it fig-

ures, is far less of a burden

The pipelines do not compete

against each other, as demarca-

tion agreements (which expire

in 1994) define what amount to

territorial monopolies in prac-

points out, any customer unhappy with the gas which

Ruhrgas offers for sale is free

Yet, as Ruhrgas tirelessly

than government regulation.

A BATTLE over the future of tricity and district heating

etec-Gaz, the representing gas industry, retaliated with an Arthur D Little critique which tallied up the potential costs, which came to about four

times the potential savings.
Mr Stern dismisses both attempts and argues that costs or benefits are impossible to know because too many assumptions must be made. He argues instead that open access is attractive because it is consistent with EC market principles and would give greater choice to consumers. However, a powerful regula-

tor would be required, able to seek information and enforce decisions, particularly because all the pipelines look set to resist yielding control over pipeline capacity. This problem never arose in the US, where pipelines sought to transport gas to keep the pipelines full when demand contracted.

Mandatory open access ish model, where open access was forced on a hapless British

achieved without much higher

volumes. Even so, Ruhrgas's main point, at which it ham-

mers away with tireless Ger-

manic consistency, is that its

shareholders have put private capital at risk. Others ought

not to be able to benefit from

Ruhrgas investments without

paying a market price - a price determined by inter-fuel

If others do not like it, they

are free to risk their capital in

the same way. Ruhrgas does not see why it should be forced

to transport gas for a fee, par-

ticularly when Ruhrgas enjoys

none of the protections against

competition found in neigh-

Instead, Ruhrgas insists on

bouring countries.

competition.

fears that regulation, once begun, may become an increas ingly intrusive and expensive burden that could outweigh any theoretical benefits.

Mr James McKinnon, the UK

gas regulator in charge of Ofgas, while broadly in favour of open access, is not sanguine about the prospects of achiev ing this on a European-wide basis. For one, the structure of the gas industry in different European countries differs sharply, from the integrated statutory monopoly in France to the fragmented, unregulated industry in Germany. A single regulatory regime

would have widely different impacts in the different countries and achieving consistency and the "level playing field" for competition would be exceedingly difficult.

For another, the current structure of the industry has broad political support in many of the EC countries. Overcoming political opposition to change would be very difficult. Just as important, however, is the lack of integra tion among the national gas grids. These grids have been developed to serve national markets in an integrated fashion. Although cross-border transit and trade of gas is widespread, the system as currently configured may not have the technical flexibility found in the US to handle rapid shifts in the pattern of

To achieve this would require new investment in pipelines and compressor sta-tions, particularly in Germany which, because of geographical position, would be the main interchange of the European gas industry.

The different caloric value of Dutch and other gas would also be an obstacle to fuller

carriage in Europe would have

an ironic effect: the most lib-

erai gas market would be

affected most severely, while the most centralised and tight-

ly-controlled markets would be

Ruhrgas has always argued

competition is best promoted not by regulating the use of private property by enforcing

common carriage, but lifting restrictions on building pipe

lines and on buying and selling gas. It can undoubtedly make these recommendation in some

confidence. Wintershall is aim-

ing to build an eight billion cubic metre (8bcm) a year capacity pipeline, of which 3bcm would be for its own use. Wintershall, however, is unlikely to raise sufficient finance for the project until it

can demonstrate that it has

both a secure customer base and a secure source of supply.

Wintershall appears already

to have struck out on arrang

ing a Norwegian supply of the

3bcm for its own use. Although Statoil, the Norwegian state oil

company, has plenty of gas to sell, it will not undermine the

market position of its biggest

customer, Ruhrgas, merely on

the prospect of a marginal

Soviets about a gas-swap deal.

While the Soviets say they will agree to any deal that makes

commercial sense, Wintershall

has yet to make a concrete pro-

posal and a swap deal would

appear to hinge on an alternate supply of gas. Filling the other

5bcm of pipeline capacity could

be a big problem, although

there is talk of Wintershall

transporting the gas through

German territory for other

Should the Wintershall pipe-

line eventually go ahead it

could pose a threat to Ruhrgas,

although it is unlikely finan-

cial institutions would support a project that would lead to

excess capacity and a price war. Yet if the Wintershall pro-

posal falls flat, it raises a seri-

ous question: is the German

market so open to competition.

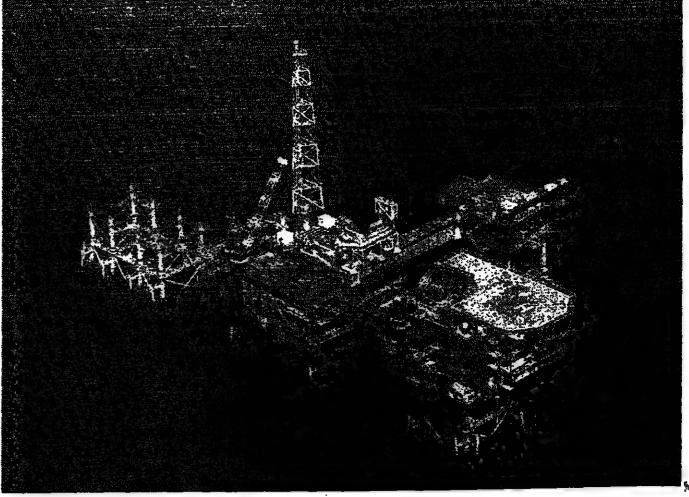
as Rurhgas claims?

Wintershall has talked to the

sales increase.

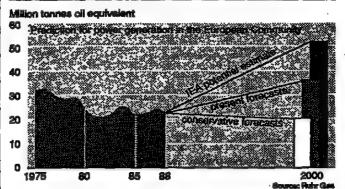
countries.

relatively untouched.



European gas-gathering station: producers generally oppose US-style market 'reforms.'

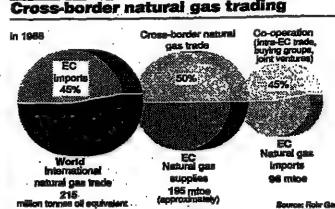
Natural gas demand



Belgium

Austrie CONTRACTOR SECURIOR

Netherlands



NORWAY

Ambitious plans under way

Norwegian gas: market share

Based on fixed contracts volume to the year 2000

NORWAY, one of western Europe's major suppliers of gas, believes that it will nearly double annual exports by the turn of the century to about 50bn cubic metres (bcm) from

about 27bcm.

This ambitious goal will be schieved by increasing existing market shares on the European continent to more than 25 p cent from 15 per cent and by winning access to new markets including the supply of LNG (liquified natural gas) to the

"The world is a brighter place to be at present than it was just two years ago, as seen from a gas-seller's point of view," observes one market analyst. There are just eight countries in the world which have access to more natural gas reserves than Norway, which has 2.75 trillion cubic

metres (TCM). Norway's main marketing thrust is to increase existing market shares on better commercial terms than what prevalls for existing contracts and to focus on its "core" markets rather than seeking to enter new markets at any cost.

"New projects will require contracts which can secure an economic rate of return...for the main challenge facing Norway, as a major gas producer, is to identify new projects which are sufficiently profitable," explained Mr Peter Mellbye, an executive with Statoil who is the state oil company's head gas negotiator and mar-

ket strategist.
This is backed up by Mr Harald Norvik, Statoil's president, who made clear that Norway has "established the required flexibility to refrain from entering into any additional contracts if the available terms are not commercially accept-

able".

Mr Mellbye says that in contrast to what has in the past been conventional wisdom about Norway's state of gas play there are now limitations on the supply side. "There was developed the notion that Norway has a lot of gas which is seeking immedi-

ate market access. This is sim-

ply no longer the case," he "We have few projects which are mostly committed to supply contracts and, insofar as new projects are concerned. there is a process involved in converting recoverable reserves into a sellable prod-

Norway's biggest competitor in the western European gas market is the Soviet Union. However, the advent of perestroika is likely to work in Norway's favour than against it to increase market share, it is now believed. "Researchers earlier forecast

uct; that takes time and there

are limitations."

that perestroika would clear the path for more Soviet gas to flow into western Europe. "However, we believe that with the Soviet domestic transition which perestrolka has facilitated, the country is not

cant, new commercial gas sup-ply commitments and this situation could prevail for a decade," Mr Melibye explained recently.

There is also more political risk attached to Soviet gas sup-ply than ever before, which must be a serious consider-ation for the buyers."

The Norwegian view about the potential of east European countries as new buyers is a cautious one — "there are problems facing east Europe, though it may eventually become an interesting market-place for natural gas if for no other reason than the necessity to clean up its polluted environment which could be aided diversifying from coal to natural gas to generate

Most interesting of the east European market opportunities for Norway are the countries of East Germany, Poland and Czechoslovakia which are totally dependent on Soviet supply, but which will seek to diversify this source of supply. These opportunities are not without problems, or at least major challenges, however.

The structure of the East European gas industry is not flexible at present to adjust to the challenges which developments will require. According to Mr Mellbye; "in

East Germany, which is the most interesting market of the three, there are many companies vying for a central role but there is uncertainty over how many of these companies will exist after German rennifi-"Many are likely to be

absorbed by West German gas companies so our challenge is to identify which ones will be

in a position to take on signifithe future East German gas buyers. Until this is sorted out, it's going to be very difficult for us

to undertake commitments to sell our gas." Last month, Poland expressed interest in buying gas from Norway, but both Poland and Czechoslovakia "face payment problems which make it difficult to assess the potential of these markets and

the timing. Though Norway sees new opportunities to sell gas, its greatest potential lies in expanding existing markets within the Troll field basket of customers which is where its main quantities of gas will continue to be sold.

The Troll field is currently the world's largest offshore gas field under development. In 1986, Norway signed a supply contract worth \$60bn with a consortium of European buyers including West Germany, France, the Netherlands and Belgium, which have been importers of Norwegian gas for

nearly 15 years. The 1986 deal calls for a 20year supply from the Sleipner and Troli fields in which West Germany contracted 8.3bcm a year. France signed on for 6bcm a year, while the Netherlands and Belgium each contracted 20cm each a year.

This was expanded by West Germany in January which opted to to boost annual supplies from 1993 of between 4bcm and 5bcm for 20 years. In addition, West German buyers have a third contract purchase option which must be exercised by July, 1995. Mr Mellbye is confident that

total West German take could

eventually increase by an addi-tional 18bcm to 20bcm a year. He is also confident that France, Belgium and the Netherlands may expand their imports from Norway by an

additional 10bcm to 15bcm. France, however, last December declined to exercise a purchase option for reasons which hinted are linked to a "trade imbalance" between the two countries.

Norway's optimism is not unfounded for it is backed up by its gas buyers: Mr Plerre Gadonneix, president, Gaz de France, stated publicly last year that "there is still room for expansion of the gas market in France even if it is now

mature." Norwegian gas could also find an increased role to fulfil French demand, "should all necessary conditions be correctly met," he commented. Mr Klaus Liesen, chairman of the executive board, Ruhrgas, earlier declared that "the share of gas from Norway will

grow from the present 15 per cent to approximately 25 per cent." He added: "The possibility of a significant increase in the use of natural gas for power generation in West Germany cannot be entirely ruled out during the 1990s and during the first decade of the 21st cen-

tury. Further impetus for optimism has been given by Mr AHP Grotens, general managing director, Nederlandse Gasunie, who says that the growth of (Dutch) import volumes. umes from "distant regions" is unavoidable in the long term.
As for Norway breaking into new markets, there exists some uncertainty, though Spain was signed on two years ago in a deal that was subsequently

improved in scope and in time. In addition, Austria has contracted minor quantities. Norway has been negotiating with Sweden to supply between 2.5bcm and 3bcm gas annually for power generation to replace nuclear power but there is now considerable uncertainty over Sweden's intention to dismantle is nuclear industry.

Furthermore, the economics of such a project "would require a reasonable price for the gas to make an investment by Norway profitable."

Karen Fossil

Changes 1988-2000

GDP (real terms)

+2.7% per year

Population

+6 million

Primary energy

Consumption

+1% per year

Energy ratio

-1.6% per year

zon just when the EC is prodistribution companies, is unique in Europe posing to reform the industry elps its argument that in Germany, at least, the gas indus-

to build a pipeline and do it better or more cheaply. In the absense of the Winter-The German market is unique in Europe, Germany has no statutory monopolies on the purchase, sale, or transport of gas. There are 29 private companies owning high pressure pipelines operating in an almost completely unregulated environment, and over 500 where gas has a 24 per cent market share, is unregulated, with one exception: supply to against a gas company found to be abusing a dominant posi-

only one company is also uneconomic because sufficient economies of scale cannot be

shall proposal, this sounds very much like an empty offer because market entry barriers are so high. It is one thing to build a gas supply system, as Ruhrgas did, where none existed - quite another to challenge Rurhgas's overwhelming position in a market that bears many characteristics of a natural monopoly, although in theory European

ness in the household sector. gas must be priced competi-tively against heating oil, elec-

THE ELECTRICITY INDUSTRY on Thursday, March 29, 1990.

□ Energy Efficiency......

.. November 22, 1990

new households cannot be dis-Building a pipeline to serve In order to capture new busi-

FORTHCOMING FT SURVEYS **Energy resources and equipment** RECENT FT surveys related to energy resources have included OPEN CAST MINING on Tuesday, March 20, and

Among the forthcoming surveys will be the following: ☐ Waste Management.....September 28, 1990

Editorial synopses for these surveys can be obtained from: The Financial Times, Number One, Southwark Bridge, London, SE1 9HL. Tel (01) 873 3337 (direct line to Carol Bileichuk, who also has the publication dates of other surveys already published).

defining itself as a gas mer-chant, whose principal busi-ness is to buy and sell gas and deliver it via its own pipelines. It takes a risk not only by building pipelines, but by "buying long" – as long as 25 years – and selling short.

The prominent role that Ruhrgas has played in opposing EC moves toward mandatory open access is undoubtedly a reflection of its relatively vulnerable market

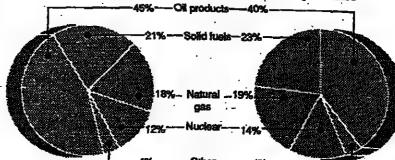
position. Ruhrgas does not have a secure base of small customers who could never be expected to enter into direct deals to buy their own gas.

Rather, it is the dominant high-pressure pipeline company that delivers gas to other distributors and a few large industries, who conceivably would be large enough to contract for their own supplies directly with producers.

Although Gaz de France also opposes open access in Europe, it would be far less severely affected because as an integrated supplier it has control over local markets. Prying apart its monopoly would be at least as difficult as in the case of British Gas because of the obstacles potential competitors face wedging their way in. Thus, mandatory common

Steven Butter

European primary energy consumption 1988: 1.096 Mice -Oil products-



Source: Ruly Gus

Natural progression

1965

BP discovers the UK's first commercial offshore gas field, West Sole, in the southern North Sea.

1967

Production commences from West Sole, supplying the first UK natural gas to the national grid.

1972

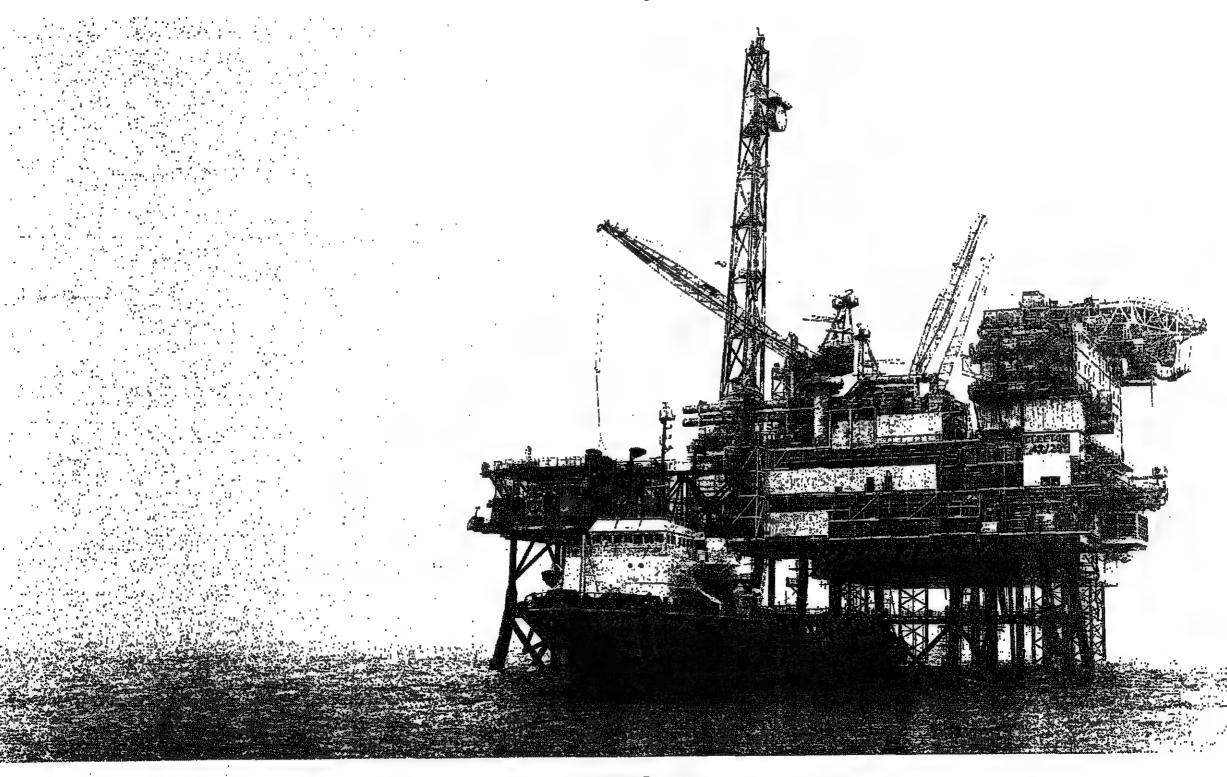
BP starts small-scale direct gas sales to local industries from the onshore Gainsborough field in Lincolnshire.

1986

BP reaches first common carriage agreement with British Gas to supply Hull chemical complex.

BP announces agreement to sell gas from the Miller field to the North of Scotland Hydro-Electric Board at Peterhead. This will be Britain's first power station supplied by direct gas sales.

1989 BP forms direct gas sales unit.



1990.

North Sea gas – direct to Britain's industry from the nation's number one producer.

Naturally.



Steven Butler examines changes in the US natural gas industry

Competitive forces intensify

industry is still reeling in shock from the regulatory upheaval of the past decade, which has turned the industry upside down as it brought the era of open-access competition

on pipelines.
In Washington, there are broad smiles of accomplishment that competition has does its job. Consumers now have a choice of gas suppliers. Gas is moving freely about the country on a spot sales basis. The industry faired well (by some accounts) in the December cold snap, thus proving it could respond flexibility. Čas prices around the country have converged, the clearest indication that competitive forces are

working. "There isn't anybody who isn't happy with this on Capi-tol Hill," says a congressional staff aid. Yet in Houston, the centre of the industry, the doubts will not go away.

"Sometimes, it's almost like Alice and Wonderland," says Jack Earnest, a lawyer and for-mer president of Transco, the pipeline company. "It is diffi-cult to see the efficiency gains. There is less flexibility in pipeline systems. Short-haul transport (which pipelines cannot refuse| makes pipeline manage-ment harder."

Some small consumers and commercial have seen rates rocket when their local utility lost a big industrial customer previously shouldered part of the infrastructural cost.

What is the privilege of pipeline ownership if you have common carriage?" says John Wolff, planning manager at Panhandle Eastern. "This is not really resolved in the US."

The problem has been the rapidity with which one fundamental change after another out of the regulatory agen-cies." says Mr Robert Thomas, president of Tenneco Gas.

Mr Martin Allday, chairman of the Federal Regulatory Energy Commission appointed at the end of last year, has recognised the industry needs a period of relative stability to absorb the changes already introduced. Yet many of these are still under challenge in the courts, and they have created other unresolved dilemmas that the FERC will undoubtedly be forced to address.

Mr Allday has also called for a basis to be found for longer term contracts, one of the printurmoil.

Pressure to introduce changes in the industry reached bursting point in the 1970s when low controlled wellhead prices produced a gas shortage. Decontrol of new gas encouraged pipelines to contract for longterm supplies at sky high prices, figuring an average price of new and old gas could be passed on to cus-

Yet demand for gas contracted sharply in the early 1980s. leaving pipelines with empty space and inability to honour purchase agreements. They tried to fill up the pipelines by cherry-picking big industrial consumers, which would only buy gas at a much lower price, and allowing them to purchase gas directly from producers. Baseload customers were still stuck with higher prices from gas bought from the pipelines on longterm con-

When these arrangements were challenged in the courts as discriminatory, the FERC made two landmark decisions: First.local distribution comparequiring them to buy from the pipelines, but pipelines were freed neither of their obligation to supply nor of the con-tractual obligation to buy from

Second, pipelines were required to provide transportation to third parties on a non discriminatory basis, or not at all. These rules produced billions of dollars in lawsuits as producers tried to force pipelines to honour their contracts. The pipelines were unable to since they had lost their captive market. The producers generally figured to have shouldered most of the loss and many hundreds went bankrupt.

The pipelines gradually reached negotiated settlements with most producers, aided by FERC Order 500. which allowed the pipelines to pass some of the settlement cost on to their customers provided they declared themselves to be open access pipelines, that is, open to all gas transporters on a non-discriminatory basis.

Order 500 was successfully challenged in the court, which did not accept FERC justification on the grounds that the order amounted to retroactive rate making. It is under appeal. The final adjudication of these disputes remains unclear, but most companies involved in natural gas are gradually focusing on the future of what everyone reckons will be a growth industry in the 1990s. The pipelines share of direct

sales of gas, gas which they purchased from producers and

critical as many of the longterm sales contracts between pipelines and local distribution npanies (LDC) are expiring.

The LDCs have a choice between renewing the old con-tracts (the pipelines cannot cancel service without FERC approval) and converting firm sales agreements into firm transportation contracts in which other merchants would

precipitously in the mid-1980s,

when open access first arrived.

It is now climbing back up

again. But this has given rise

to the most critical regulatory

question for the coming years:

how to referee fair competition between the pipelines' mer-

chant operations and other

merchants of gas so that the

pipelines do not have an unfair

This question is becoming

The structure of

charges introduced by

the pipelines is under

dispute

The problem is that few merchants can claim to offer the reliability of the pipelines. They are generally limited to half a dozen supply points for gas into the pipeline, compared

1.45

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This could put supplies in jeop ardy during a repeat of last December's cold snap.
The structure of charges

introduced by the pipelines is also under dispute. Hadson Natural Gas, an independent supplier, has taken Panhandle Eastern, the interstate pipeline, to court over its charges called gas inventory charges.

These are the fees that pipe lines are proposing to charge customers to provide a firm supply service. (In theory it covers the cost of firm contracts with producers, although some producers believe the pipelines will just pocket the money and take their chances on the spot mar-

ket.)
The Panhandle Eastern charges require a customer to pay, say, 60 per cent of annual entitlements whether or not used. Hadson complains this locks in customers who need absolute reliability. Other pipe-lines are charging a fixed fee for availability, whether or not used, which leaves the customer free to shop around for the best price of gas.

The structure of gas inventory charges is one important item on the regulatory plate. Redesigning pipeline rates to promote maximum efficiency and throughput, something all

place, is another. The incredihly cumbersome procedure for federal government certification of proposed pipeline inter-state constructionhas drawn criticism all around.

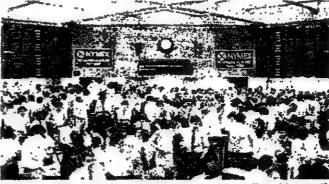
Approval of the Kern River pipeline project from Wyoming to California took more than five years. There is now discussion that Federal certification should perhaps simply be scrapped, on the grounds that the environmental risks of huilding gas pipelines are less than the damage caused by burning coal and oil.

There is even the faintest whisper in some quarters, which will probably never amount to much, that maybe all of this government inter-vention, and the army of law-yers and consultants it supports, in the end does not pay its way. (The cost is simply added on to customers bills when the pipelines make rate

The head of large inter-state Texas pipeline says the light-handed Texas regulatory system could well he a model for the rest of the nation.

In Texas, pipelines charge what the market will bear, which means many have lost money recently.

With increasing competition between pipelines nationally, he believes, market forces themselves would usually be sufficient to provide discipline and promote efficiency, with-out having to have the FERC approve every change in busi-



Proved US gas reserves

200 150 100 Production 85 88

Gas wells Million feet

Reserves versus discoveries Lower-48 states (billion cubic feet)

Reserve Life Index Lower-48 states (reserves/ production)

Average monthly figures

Seismic crew count

Warning from **US** suppliers

AFTER 50 years of regulatory turmoil in the US natural gas industry, the sector finds itself back where it has been often before - debating whether the regulatory regime, and the price of gas, will cause a shortage in the coming years.

The producers of natural gas in the US have cried wolf for many years and there is no surprise that few outside the industry are listening to them now. Producers are warning that the so-called "gas bubble" - an excess of deliverable supplies that has depressed gas prices in recent years - has deflated, and that, in the coming years, surplus will be replaced by a shortfall that could leave the industry unable to meet peak winter

Despite decontrol of wellead prices, enacted into law ast year, current prices do not reflect anything like an impending shortage.

"Today's prices are so low that capital investment has not been forthcoming. We're on the ragged edge of a big shortage of gas," says Mr Robert Alison, chairman of Anadarko Petroleum, an independent pro-

The American Gas Association, which speakes mainly for gas consumers and pipalines, by contrast, is confident and reassuring that a balance between supply and demand will persist for the forseeable

It says that inside of 12 months, 0.7 to 1.2 trillion cubic fest of gas, compared to last year's consumption of nearly 19 tef, could be brought on stream each year, and that with a three year lead, 1.3 tcf to 2.1 tcf could be made avail-

Mr Robert Kalish, of the AGA, says this will come from four, readily identifiable sources: cheap, low-risk infill drilling on existing fields, stepped up Canadian imports, development of existing discov-

eries, and imports of liquided natural gas, (LNG). This shorter term rosy picture is bolstered by upward revisions to estimated potential gas reserves in the yetto-be found category issued by the AGA Potential Gas Committee, which said that in early 1988 there were 983 tcf of gas yet to be be discovered in the US, compared to 18 to 19 tof a year of consumption. This has led to broad confidence at the AGA that America has an assured future with abundant

gas supplies.
Is the AGA right? maily used to predict economic activity do not support its case. In fact, while the "potential" appears more and more rosy in forecasts, the industry in posi-tion to realise that potential has been devastated by weak

As a result, drilling levels fell off drastically in the 1980s and US resauves of natural gas have steadily eroded. In almost every year since the late 1960s, production has exceeded additions to recommend the steam of the late 1960s.

production has exceeded additions to reserves, even during the heyday of high prices in the early 1980s.

Moreover, the production industry is worried by the quality of reserve additions that have taken place. An increasing proportion of increasing proportion of reserve additions come from reserve revisions, extensions to adjacent to old fields. Less and less comes by way of new

Of the 22 tcf added to US reserves in 1968, only 1.6 tcf

Current prices do not reflect anything like an impending shortage

came from new discoveries, and 1.9 tcf from new reservoirs in old fields. Many in the industry also question the size of the increment, 122 per cent of consumption, because it includes a 6 tef of coalbed methane that some see as low

The lack of wildcat exploration may explain another sta-tistic — why gas found per well drilled has been more or less stable since the early 1970s. Earlier theories of resource depletion suggested that this measure should have continued to fall from earlier

highs.
"The explorers are picking to drill. off low risk reserves to drill. They are not really finding new gas," says Mr Phillip Whitman, a consultant with Aurthur D Little in Houston. In a low-price environment, it appears, explorers who have not gone bust are shooting for the sure thing, low-risk drilling that results in incremental reserve additions.

While this props up the suc-cess rate, Mr Whitman does not believe the pattern of drilling can provide the future supplies that the AGA and others say will be necessary in the

coming years. "To assure long term higher supplies we need higher prices," he says, and at least a doubling of drilling levels.

Mr Alison says that exploration commanies need to sail one tion companies need to sell gas

at two to 2½ times finding costs in order to break even. With Industry average finding costs about \$1.30 per thousand cubic feet (mcf), this would require a selling price of \$2.75 to \$3.00 per mcf. Well head prices, however, have been averaging about \$1.70 per mcf. While the AGA may accept

much of this argument, it says that advances in technology have continued to bring down the cost of finding gas, and that actual higher prices along with expections of rising prices will be enough to bring suffi-cient gas to market in time. In December, the US delivery

system was put under severe strain during the coldest December weather on record, leading to near record monthly deliveries of 2.3 tcf. To hear the AGA tell the story the industry performed beautifully under the circumstances, which were severe indeed. One third of the gas producing wells in the Gulf of Mexico were trozen shut for

To some producers, however, the experience showed that the US industry is already baving trouble meeting peak demand. Three interstate pipelines were forced to curtail sales to customers with firm supply contracts, although vital supplies to households were not turned

Producers are warning that the so-called "gas bubble" - an excess of deliverable supplies that has depressed gas prices - has deflated

off. The gas industry looked relatively good, next to the fuel oil industry, where shortages hit much harder.

Gas prices charged ahead as gas in storage was depleted rapidly. Yet prices fell back quickly as customers deferred refilling storage until the summer months, when gas prices are low. The industry was apparently saved only by the

unseasonably warm weather in January and February. The "gas bubble," which depressed prices for so long, appears to have gone, yet average prices - as opposed to sea-sonal peaks - have not gone up significantly.

This has the gas producers worried, not only because they are not making the sort of money they would like, but also because of fears that a lack of financial incentive to industry's ability to meet demand. This could lead to a sudden supply crunch that could cause prices to rise sharply and once again bring Congressional intervention and

price controls.
This situation could take longer to develop than in past years because of the large capability of the US industry to switch to alternative fuels should the price rise to high, or deliverability not be there.

if a shortage in deliverability did lead to a serious shortage and soaring prices, it should not be too surprising. Former : Federal Energy Regulatory Commission officials, ranging from former commissioner Ms Martha Hesse on down, have expressed confidence in the workings of the free market.

They believe that decontrol of wellhead prices combined with the competitive changes in the industry which allow producers to sell directly to consumers will put the market into balance. Yet there is no reason to

believe that the natural gas industry, deregulated, should behave any differently from other commodity industries, where long cycles of surplus and shortage are typical Indeed, Mr Whitman argues

that the rate-of-return regula-tion on pipelines prolonges and exaggerates these cycles. This is because rate behaviour is precisely the opposite of what the law of supply and demand should indicate. In the early 1980s, when gas

demand fell off, pipelines put up their rates to earn a return despite a loss of throughput. This puts even more pressure on the producers, who are forced to take a market-determined price at the burner tip, minus higher delivery charges. As pipeline throughput rises and capacity becomes constrained, perversely, rates drop, the take by producers rise, and a boom in drilling is

"In the 1980s, a thousand producers went bankrupt, but not one pipeline went bankrupt," complains Mr Alison.
"Regulation has masked the market signals.

There is a widespread belief in Houston that the AGA view is not an objective forecast, but rather an attempt to reassure worried utilities and industrial users that investment in gasburning equipment makes sense. Mr Whitman draws the most obvious conclusion from this clash of views: investment in equipment to allow fuelswitching is a good insurance

Steven Butlar



A liquified natural gas carrier with spherical tanks (capacity: 125,000 cubic metres)

THE GAS INDUSTRY what are the key issues?

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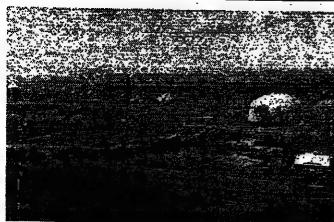
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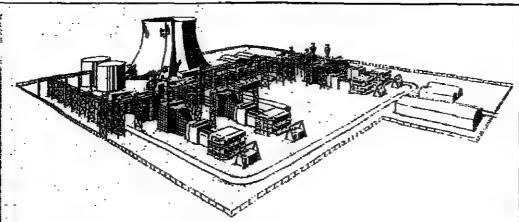
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Aerial view of the proposed site for the Teesside Power Project at ICI Wilton Works, with, right, a perspective of the plant

Gas is the favoured fuel in electricity generation, says Maurice Samuelson

THE INTERNATIONAL energy shocks of the 1970s led to a reduction in the use of natural gas in power stations. But in the final decade of the century, gas is making a dramatic comelectricity generation. Several factors have contrib-

uted to this new outlook ■ The large quantities of gas now available.

■ Its environmental attrac-

■ New combustion technology and the lower cost of building gas-fired power stations. ■ Radical changes in the electricity industry, especially

privatisation.
In the US, the Fuel Use Act big new gas-fired power sta-tions was repealed three years ago. In Europe, the 1975 Euro-pean Commission Directive isting clear criteria for approving gas-fired power stations is virtually a dead letter. If the

1-150 B (45)

Marthalthau

British Government has its way, it will be officially set aside later this year.

Environmentally, gas scores over coal because of its far lower sulphur and nitrogen content. This means that, pulled coal stations are hurnunlike coal stations, gas burners do not have to be fitted with expensive acrubbers to reduce their contribution to acid rain damage to lakes and

Gss still releases carbon into the atmosphere, thus contri-buting to the Greenhouse Effect, the latest source of global anxiety about the envi-ronment. But efficient methods of burning it mean that far less carbon is released into the atmosphere per unit of electric-ity produced.

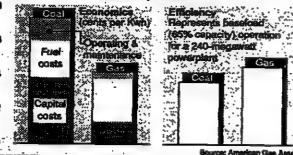
The efficiency with which gas is converted into electricity has been boosted by the use of combined cycle gas turbines, in which the waste heat from the primary gas turbines is passed through a heat exchanger to raise steam for a secondary steam turbine.

The result is to achieve energy conversion rates of about 50 per cent compared

A dramatic comeback

Electricity production

Gas versus coal: comparisons of electricity production in a coal-fired



with 37 per cent for the most modern conventional coal-fired power stations. It also enables gas producers to command a higher price for their product, and some are considering

and some are considering integrating vertically into the generating business.

The only way in which coal producers can respond is via a similar route - by gasifying the coal for use in combined cycle turbines. (The "topping cycle" technology based at British Coal's Grimethorpe pilot plant is not yet ready for full commercial application but is one of a number of serious coalof a number of serious coal-based challengers. Once these systems are on the market, the greater stability of coal prices over that of gas may again tilt the balance in coal's favour.) Natural gas, however, can also be birned in coal stations, thereby boosting their effi-ciency and diluting their noxious emissions. The American Gas Association claims that electricity from old coal plants "re-powered" with gas is half-the price of that from a new conventional coal burner.

conventional coal burner. Ges is also increasingly used in co-generation, or combined neat rer (CHP) machines, in which the steam from the gas exhausts is used

for industrial processes or space heating rather than being passed through a second-

ary turbine.

It is against this broad back-ground that gas is taking a steadily increasing share of the power station market in most developed countries.

In the US, where 15 per cent of gas is used for electricity generation, it accounts for 10 per cent of the fuel used in power stations. According to a recent report by the US Energy Information Administration. this proportion could double by the end of the decade.

A similar growth in Europe is also predicted by the London-based forecasting consultancy Wharton Econometrics. In a recent study of 18 countries of 18 countri tries in Western Europe and Scandinavia, it concluded that by 2005 gas would account for by 2005 gas would account for 11.6 per cent of power station fuel compared with its 5.3 per-cent share in 1988. In Britain, where no gas was used in 1988, it would reach 12.2 per cent by 2005. In West Germany, where it stood at 6.3 per cent it would reach 15.3

per cent, it would reach 15.3 per cent; Belgium's use would rise from 4 per cent and Spain's from 3 per cent to 10.2 per cent.

Only in the Netherlands, which has long fuelled its power stations from indige-nous gas reserves, is gas set to lose market share, primarily to clean-burning coal plants. According to Wharton, gas in Dutch power stations will fall from 47.3 per cent to 34.4 per

In Britain, it is electricity privatisation which has most dramatically transformed gas's prospects as a power station fuel. Until two years ago, both the Government and the mono-lithic Central Electricity Generating Board were contemplating building two or three large conventional large coal stations and three more PWR nuclear plants like that taking shape at Sizewell, Suffolk.The 900MW coal turbines would have been Britain's largest

All these schemes, providing hope for Britain's order-starved power plant manufacturers, have now foundered as a result of the political decision to transfer the balance of investment decision making from the generators to the distribution companies which buy their

output.

They have been replaced by a score of new projects, including about 10,000 MegaWatts of combined cycle plants, all but one of them to run on natural gas. The first gas contracts have already been concluded - British Gas, in its first such contract, will supply the fuel for 15 years to the 220MW plant at Roosecote, Cumbria, owned by Lakeland Power. It will sup-ply 7 per cent of the electricity used by Norweb, the local dis-

tribution company.

PowerGen has signed up for gas for its 1,000MW plant at Killingholme from the Arco-Conoco Pickerili gas field in n: National Power's plant on the same site will be fuelled from Total

Ten per cent of the gas from British Petroleum's Bruce field has been secured for the Northamptonshire, owned by East Midlands Electricity and Hawker Siddeley. This was the first such deal following last year's anti-monopoloy ruling that 10 per cent of all new gas fields in the UK Continental

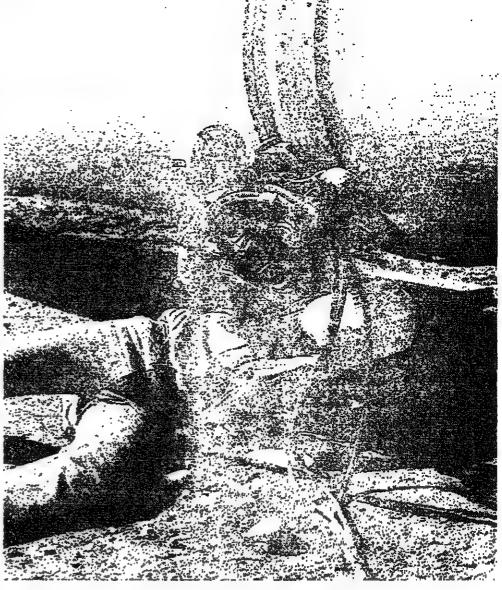
tomer other than British Gas. The biggest single power station gas contract, representing 6 per cent of the entire UK gas market, will provide 300m cubic feet a day for the 1,225MW plant at ICI's Wilton plant, Teesside, to be built and operated by the US Enron Cor-poration. The plant, compris-ing eight gas turbines, will take gas, through a specially built offshore pipeline, from the Everest and Lomond fields, owned by the Amoco/Gas

Council group.

Analysts say British gas fields should contain enough reserves to the end of the cen-tury for the new electricity schemes currently under con-sideration. But electricity pro-ducers are also discussing longer term projects with other suppliers, principally the Nor-wegians, who are seeking new outlets to replace business from their declining Frigg and Odin fields.

That implies large-scale sales of Norwegian gas to British power stations. Four years ago, the British Government vetoed a contract by British Gas to secure the output of Norway's Sleipner field. It remains to be seen how the Government will react if a similar proposal is made by the electricity indus-

European Electric Power System in the 1990s; (WEFA Belgrave Street, London SW1W ONW); 25,500 for two copies.



BRITISH GAS

A surge of new customers

PRIVATISED AND liberalised the British gas market may be, but one company - British Gas - still completely dominates the gas business in the

British Gas, privatised in 1986, remains the monopoly supplier to households and the vast majority of small businesses - those consuming less than 25,000 therms a year. Moreover, although British the industrial gas market for the first time, so far it has suffered little more than pinoricks from competitors in this seg-The giant British company,

which claims to be the largest integrated gas supply business in the western world, has sailed relatively unscathed through what for it is bad news: a spate of mild winters. In the year to March 1989, revenue from gas sold to households increased by 3.4 per cent to \$4.349bn - some two-thirds of British Gas's total revenue from gas sales - in spite of the preceding Christmas being one

of the warmest on record. More impressively still, the company managed to sign up 350,000 new customers last year - many more than was normal before privatisation. British Gas attributes this surge in new customers in part to new, more cost-effective techniques it has devised to bring the marginal customer onto its network. But British Gas's top managers are conscious that they cannot count

on such progress in its domes-tic gas business indefinitely. "We have already got high saturation and given five more years of progress like this, the market will be pretty mature." admits Mr Robert Evans, chairman of British Gas.

British Gas also faces a more political battle in its all-impor tant domestic market. Mr eral of the Office of Gas Sunply, the industry's regulator, is preparing to negotiate new rules for setting prices affecting the company's 17m house-hold and commercial custom-

In theory. Mr McKinnon has plenty of time to negotiate the new formula, which sets a squeeze, or X, factor by which British Gas must reduce its orices, after allowing for rises in inflation and gas purchase costs. British Gas's new price formula does not have to be in place until April 1992. In practice, however, the time needed to agree on a new formula will ensure that the issue become live this year.

At present, the squeeze fac-

tor is 2 per cent. Combined with the impact of weak oil prices on gas purchase costs, this has delivered a 10 per cent cut in real gas prices since 1986. Mr McKinnon is set on a fundamental review of the whole basis of the formula, To mammoth exercise to disaggreeate the costs incurred in supplying bousehold and commercial customers - those covered by the pricing formula - from those in the unregulated industrial or contract sector.

British Gas, which believes

that rate-of-return controls have prompted US utilities into wasteful investments, will fight to retain the present structure of the formula. Unsurprisingly, it will also seek to dispel the widespread belief that its monopoly supply business is a low-risk activity. not meriting a return much above that on government

The gas company has not cessfully from its encounters with Mr McKinnon, a fact attributed by many industry observers to a misreading of the powers available to the regulator by Sir Denis Rooke, Mr

British Gas gives to its desire

tribution and supply operation. Its proposal to acquire Con-sumers Gas, Canada's largest

Valley Industries ran into strong regulatory objections which stopped British Gas from taking management con-trol of the Canadian oil and gas exploration concern. Its failed bid to buy Petrocorp led to an embarrassing row with the New Zealand Government.

mark raised by City analysts is whether British Gas should dilute its relatively shallow pool of top management talent by diversifying into risky areas which it knows little. An alternative strategy would be to return more of the value of its monopoly earnings in the

Source: UK Offshore Operators Association

Environmental issues

Big claims for 'areen' fuel

BRITISH GAS has been quick effect, particularly chlorofluto seek to capitalise on worrles about the effect of energy consumption on the environment. It has advertised the "greenness" of its main product natural gas - in comparison with other hydrocarbons.

Natural gas is predominantly the hydrocarbon methane, and has a 20 per cent share of the world energy market, compared with 10 per cent Methane is certainly natural,

occuring in vast geological reservoirs - mainly deep under the North Sea, in the case of British Gas's reserves. The carbon atom in methane

is linked to four hydrogen atoms. It is the simplest hydro-British Gas makes big claims

for natural gas as an efficient, environmentally friendly fuel Simple hydrocarbons such as methane, if burnt completely in the correct ratio with oxygen and at temperatures which do not permit the not permit the combination of the main atmospheric gases, nitrogen and oxygen, produce carbon dioxide and water.

Burning natural gas emits only 60 per cent as much car-bon dioxide per unit of heat produced as coal and 80 per cent as much as fuel oil.

Mr Alec Melvin, a research manager at British Gas, says that for the same energy output as obtained from other hydrocarbon fuels, natural gas burns to give at least 40 per-cent less carbon dioxide, which is thought by scientists to be a major contributor to the greenhouse effect of global warming.
The greenhouse effect is

caused by certain gases including methane as well as carbon dioxide, which trap the heat re-radiated from the earth after sunlight has warmed the

Scientists believe that carbon dioxide contributes to about half the greenhouse effect of trapping outgoing heat from the earth. The amount of carbon dioxide is thought to be increasing at an annual rate of about half of

one per cent. Other gases are also capable of adding to the greenhouse

orocarbons (CFCs) and halons which which have a strength as a contributor to the greenhouse effect that is 20,000 time greater per molecule than car-bon dioxide. These gases come from refrigerators and aero sols, for example, and are thought to contribute about 14 per cent of the greenhouse

Methane or natural gas is thought to be the second big-gest contributor, after carbon dioxide, responsible for about 18 per cent of the greenhouse effect. The amount of methans leaked to the atmosphere is thought to increasing by about one per cent per annum, twice rate of carbon dioxide. Each methane molecule is 30 times stronger in its green house effect than carbon diox ide. So the importance of meth ane itself, regardless of its role as a source of carbon dioxide,

is increasingly important.

Max Wallis, of the University
of Wales, claims that British Gas is losing between 3 per cent and 10 per cent of its natu-ral gas by leakage. British Gas puts the leakage rate at no

more than one per cent Methane has two main sources: from naturally occuring gas reservoirs and as a natural by-product of rotting vege-tation. One of the ways natural gas can help with environmen-tal issues, according to British Gas, is with the use of tech-niques for the combined generation of heat and power (CHP). British Gas says that if running hours for a power genera-tion system exceed 4,500 hours a year, then it is worth investigating the potential for a gas fired combined heat and power system. CHP offers an alternative to the separate use of boil-

Mr Robert Evans, the chair man and chief executive of British Gas, in a speech to the Institute of Petroleum earlier this year, said that gas was part of a solution to environmental concerns and was not part of the problem.

ers and other heating systems and to the purchase of electric-

Lynton McLain

Britain's industrial gas sector

Market revolution

industrial gas market has taken place this year, although, so far, it is a very small revolution which has been noticed by few people and affected even fewer.

On the first day of March, Quadrant Gas became the first concern other than British Gas to sell gas directly to industrial customers, using British Gas's

Quadrant, a joint venture between Esso and Shell, began the assault on the industrial gas market by unveiling two customers: Barr Thomson, a fife engineering company, and the Ballantyne Cashmere Com-pany of Peeblesshire.

Not to be outdone by its

large oil company rivals, British Petroleum followed Quadrant with a similar announcement a month later.

BP Gas Marketing, a com-pany established only in January, announced its first two industrial customers: the Corby factory in Northamptonshire of Euromax, a subsidiary of Amax, the large US metal producer, and the defence equipment plant in Doncaster, Yorkshire of MS International

As yet, Quadrant and BP Gas Marketing represent the merest pinpricks on British Gas's industrial business. Yet they are a culmination of a long struggle by the UK authorities to inject some com-petition into the "contract" gas market - that for customers using more than 25,000 therms

a year, which yielded revenues of £1.523bn to British Gas in Mounting dissatisfaction among customers with British Gas's monopoly of this market was echoed by Mr James McKinnon, director general of Ofgas, the industry's regula-tory, who complained that British industry was having to pay more for its gas than its coun-terparts on the Continent.

British Gas had been legally obliged to transport gas for third parties wanting to serve the industrial market for a fee since 1982, but until this year this had never happened. There was no gas available, since virtually all the gas com-

ing out of the British sector of

the North Sea was contracted

to British Gas. Neither was

A REVOLUTION in Britain's there an obvious entry point for newcomers into a market which British Gas had sown up by negotiating individual contracts with its customers.

A bruising inquiry by the Monopolies and Mergers Commission into the industrial gas market changed all that. Published in 1988 and brought into effect last year, the commission's report made two key recommendations.

First, British Gas was told to publish a fixed schedule of prices for large industrial users and to stop discriminating against customers unable to switch to alternative fuels.

Second, it had to contract for no more than 90 per cent of gas from new gas fields - the so-called "90/10" rule which forced big North Sea producers to consider fresh markets for the 10 per cent of gas which they could not sell to British

Ofgas has guided the negoti-ation of the first few transmis-sion deals under this new regime, stepping in when Brit-ish Gas looked set to demand prices that would have made it impossible for a competitor to

earn a profit.

The deals signed by Quadrant and BP now constitute a clear precedent, showing that British Gas and its new comket can reach agreement on transmission without the inter-

vention of the regulator.
Other would-be gas suppliers are waiting in the v including Associated Gas, beaded by Lord Ezra, former chairman of the National Coal Board: Kinetica, a new company formed by Conoco and PowerGen; Gas Transmission, a pipeline company in which Enterprise Oil has a 25 per cent

stake; and Mobil. While there is plenty of interest in the industrial gas market, therefore, it is perhaps less clear where this new burst of competition is heading. Many industrial customers

are less than happy with the

new regime. While some companies experienced windfall gains when British Gas was forced to move to a fixed schedule of prices, others saw their gas charges rise substantially. All of them lost the ability to

negotiate prices. Unsurpris-ingly, British Gas echoes these complaints about the inflexibility of the new schedules, which allow its competitors ample opportunity to undercut it on They are described as "a

very unfair imposition on British Gas" by Mr Robert Evans, the company's chairman.
"I don't see the role of British Gas as fixing industrial energy prices in the UK," Mr Evans adds.

There is a distinct air of artificiality to the competition that has so far emerged. On the one hand, it is in British Gas's interests - as its senior managers privately acknowledge ~ to surrender some of its indus-trial gas market to the new entrants: otherwise, there will be renewed pressure on the authorities to tighten the con-straints on British Gas still fur-

BP's experience in entering the industrial gas market dem-onstrated just how keen British Gas is to encourage competition. BP Gas Marketing will be using gas initially from the Welland field landed at the Bacton terminal in Norfolk.

BP had originally agreed in principle to sell all its Welland gas to British Gas, but British Gas offered to forego 10 per cent of the Welland gas, so that BP could build up its own gas supply business. On the other hand, British Gas's fledgling competitors

principally, for the next few years, a lack of gas not already contracted to British Gas. Quadrant will be concentrating initially on customers in gas landed at the St Fergus terminal in Aberdeenshire. BP will be concentrating on cus-

face serious constraints -

tomers in the Midlands. Mr Dick Olver, (BP's general manager of European gas, says that BP will not have access to large volumes of uncontracted gas until about 1993 In the meantime, however.

BP Gas Marketing might try to

build up its gas supplies by buying gas from other produc-ers which may not want to enter the industrial gas mar-

Evans's abrasive predecessor. Mr Evans paints himself as a

very different character to Sir Denis, more of a conciliator. Yet the policies adopted by Mr Evans since he took over the helm of British Gas in July are firmly in line with those followed by the company since its privatisation. They flow from British Gas's conviction that it must reduce its dependence on the relatively mature UK market. This means building up the two other legs to the British Gas tripod:

· Global gas is the name to develop an overseas gas disnatural gas distributor, for CS1.1bn (£563m) is the clearest example to date of this strategy. Announced in March, the Consumers Gas acquisition still has to clear several tough regulatory hurdles in Canada. · Exploration and produc-

tion. British Gas's drive to controversy. its attempt to purchase Bow

The fundamental question-

UK to its shareholders.

Resources Editor

UK gas production

Potential UKCS fields (bikion cubic feet per day) 10 Expectation case 20 wells/year 6/9 platforms/year 9 pladorms Future N N sea associated gas 6 plaiforms per year Future gas condensate fields

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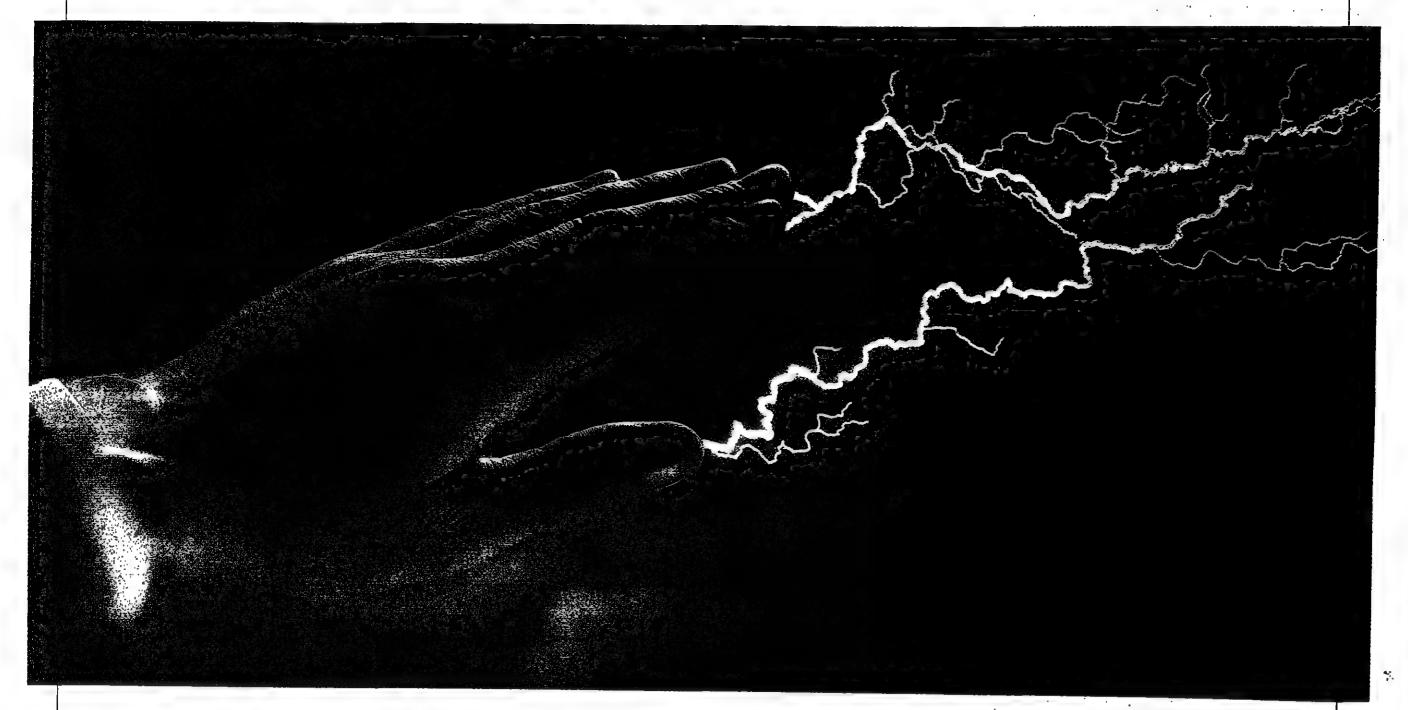
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SECTION III

FINANCIAL TIMES



The world computer industry faces a battle more intense than any it has experienced before.

as strategic alliances, rather than technology, will determine the main winners and losers, as-

says Alan Cane explains here.

Lining up for battle

BATTLE LINES for the information technology wars of the 1990s are now clearly drawn. To the west, there is International Business Machines (IBM), grizzled vet eran of the computing busi-ness, anxious to confirm that it is still leader of the data pro-

cessing pack.
To the east, the Japanese computer manufacturers (JCMs) are resolute and confident after a 40-year struggle which has seen them move from nowhere to a position where they collectively repre-sent the only serious challenge to IBM's dominance. And in the middle, Siemens of West Germany.

Very much an unknown quantity, Siemens has emerged s a computer manufacturer of international class only in the past few years. Now through its joint ownership of Comparex (with BASF) and Nixdorf Siemens Data Systems, it has become Europe's computer champion. What will give the battle added zest is the fact that all the combatants will be fighting on umfamiliar terrain and using, for the most part, new and untried weapons.

The old world of data processing, driven by technology and dominated by manufacturers' proprietary systems, is on the way out. While proprietary

systems will continue to play an important part in the indus an important part in the indus-try because of the billions of dollars customers have invested in them, the shift towards "open systems", where machines from different manu-facturers can easily be con-nected together and run any make of software, now seems

The speed of change is camoutlaged to some extent by the fact that the move to open systems is being driven chiefly by government agencies and by the armed services, anxions to get better value from the billions of dollars they pour into information technology every year.

Commercial groups, especially in the US, have been far slower to adopt the ideas of Open Systems Interconnection - rules which define how computers can be connected for easy communication; and a common applications interface which means to all intents and purposes, the Unix operating system (or a variation of it) which allows software to be

moved from machine to machine. The advantages of open systems are so appealing, however, that a steady stream of commercial groups are beginning to demand OSI and Unix for their new applica-



PUTER INDUSTRY

less still commonplace. There seems to be no prospect yet of a single common version of Unix, for example. The Open Software Foundation (OSF) which includes IBM and DEC supports one version, while Unix International (UI), whose membership includes AT&T and Sun Microsystems, supports another.

Hostilities have been under-way for two years. Peace talks which might have led to a common standard broke down ear-Her this month. A communique from the front line said: "UI and OSF determined that a full organisational merger could not practically be achieved at this time."

There has also been a furore in Europe over a draft EC directive that would outlaw software piracy. Critics say it would also outlaw legitimate measures manufacturers need to take to understand how their competitors' systems work in order to design com-patible components. There are fears that it would give compa-nies like IBM and DEC a stranglehold on who designs what to work with their systems,

Worldwide, the computer industry is still growing, but unevenly. In the US, spending on data processing is virtually at a standstill, while it remains vigorous - that is, with growth of more than 10 per cent a year - in Europe and

strategy that has been espoused by most computer What will give the battle added zest is the fact that all the combatants will be fighting on unfamiliar terrain and using, for the most part, new and untried weapons

solve their business problems is too difficult. IBM, facing a serious and long-term decline

in its rate of growth and profit-

ability, has been turning itself

inside out in an attempt to

move away from its old, auto-

cratic, technology-driven image

to a softer, customer-driven

approach. To be fair, it is a

the Pacific Rim. A major reamanufacturers with varying son for the slowdown in spend-ing in the US seems to be a degrees of success. IBM was by no means in the vanguard of deep distilusionment on the the movement - but when part of customers with the industry's offerings. They complain that com-IBM takes a trend seriously, puter systems are awkward to

the rest of the industry has to take notice. The principal move is a change of emphasis from hard-ware to software. Mr Jack Kuehler, IBM President said: use, that they are too compli-cated to connect together and that developing software to

Japan, where it has had to fight against a cluster of indigenous companies with one hand tied behind its back for much of the time. It has been comparatively successful, but so have the major Japanese manufacturers - Fujitsu, Hita-chi, NEC, Mitsubishi, Oki and Toshiba. In the late 1950s and

1960s, Japanese companies faced considerable disadvantages in entering the computer business. As Marie Anchordoguy points out in her study, Computers Inc.: "IBM had a 70 per cent share of the world computer mainframe market and the rest was dominated by large US companies such as

is that we must learn how to

offer more software. We have

to optimise our development

budget, our people and our skills more towards the devel-

opment and selling of software and hardware. It is one thing

to say: 'Sell solutions!' and

IBM took its model for work-

quite another quantify them."

ing with its customers from

IN THIS SURVEY

□ International section and market trends □ Computer Industry sectors ☐ The big issues pages 8-10

European computer terminal market

Shipments by country in 1989 (\$ billion) West Germany Others

Editorial production by Michael Wiltshire

☐ PICTURED, left: Scitex's "Visionary" system enables users of Apple Macintosh personal computers to design complete pages including colour photographs and illustrations pass the digital data into a high-performance Scitex electronic page composition (EPC) system. The EPC then produces highresolution films for four-colour printing. In this way, publishers and designers can gain the benefits of high-end electronic colour image processing without a substantial outlay.

Fujitsu (now Japan's largest computer manufacturer) was just a tiny telecommunications maker with annual sales of

Today, the picture is entirely different. The Japanese makers are dominant in Japan and are becoming steadily more influential in the west through a series of imaginative marketing and technology exchange agreements. While still individually small compared with IBM they are the only real threat to the US company's international dominance.

Where does all this leave Europe's computer manufac-turers? It is received wisdom to say they are in need of a mea-sure of rationalisation to provide critical mass and economies of scale. If they are to survive and grow, they have to extend their influence beyond home markets and find ways of financing increasingly heavy research and development

Partnerships are one answer. Siemens took over its compa-triot Nixdorf at the beginning of the year when unsustainable losses, caused by over-expansion into a declining market, started to overwhelm the minicomputer manufacturer. The deal has now been cleared by the West German cartel office,

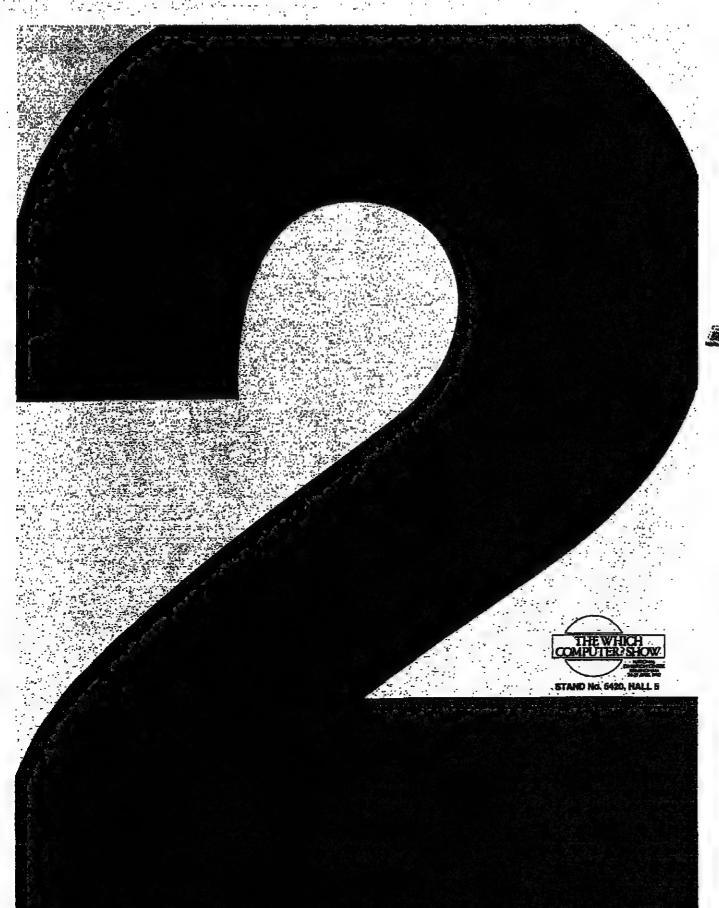
Sperry Rand, RCA and GE, and the two companies are combining in a new venture Siemens Nixdorf Information Systems. Details of how the new company will operate are

now being worked out. Philips of Holland, which has a dismal record in informa-tion technology, and Olivetti of Italy, Europe's most successful small computer manufacturer, have been linked as likely partners. International Computers of the UK, part of STC Group, has made no secret that it is seeking a partner to help shoulder its research and development expenses.

One pressure for change is the advent of the single unified market after 1992. But as a recent British Computer Society study noted: "In reality, companies in the IT marketplace will not be operating in one large, free, homogeneous market using the same cur-rency under the same law...in sum, the benefits of scale will be more difficult to

model suggests."
Hostilities may have commenced in earnest, but it will be some time before the dust of battle clears sufficiently to establish the winners and the

*Computers Inc.; Marie Anchordoguy, Harvard Univer-



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US companies do better in UK

THE UK computer industry is less a single entity than a col-lection of smaller industries growing at different rates and with different challenges and opportunities.

The picture is further com-plicated by a clear distinction between indigenous companies and those owned by foreign. principally US, parents. Europe in general and the UK in particular is proving the salvation for many US companies, left with stagnant revenues in their home country where industry growth has been slug-

gish for the past three years. The troubled minicomputer companies - Wang and Data General, for example - have performed well in the UK while losing money in the US. Mr Ronald Skates, president and cluef executive officer of Data General says: "The UK is probably our shining example of a well-run organisation which direct appeal to the market place. The UK management has always been ahead of many other parts of our organisation in recognising what is going on in the marketplace." International Business Machines, the world's largest computer company, together with Digital Equipment and Unisys, the world number two

and three respectively, also fared better in the UK than in

the US. A partial explanation is that the market for data processing equipment, especially the smaller machines, is still very active in the UK and Europe in general, while it is close to saturation in the US.

Indigenous UK computer companies can be dividend into three broad categories (this does not include software and systems houses or dealerships which examined later in this

First, companies supplying a full range of computers from

Europe, and the UK in particular, is proving to be the salvation for many US computer companies

mainframes to microcom-puters. The UK's only repre-sentative in this category, International Computers(ICL) part of the STC group, has been performing well in recent years and, along with Olivetti of Italy, is one of the few European hardware manufacturers to turn in a profit in 1989. Its revenues in 1989 grew to £1.6bn with profits of £146m making it one of the world's more profit-able computer companies.

ICL manufacturers main-frame computers using high

performance chips designed by its own engineers but manufactured by Fujitsu of Japan with which it has long standing technology agreements. Earlier this year it made a bid for a leading position in the fast developing market for medium sized business computers run-ning the "Unix" operating sys-tem. Unix now seems set to become the industry standard

for operating software in the

small to medium sized com-

puter range. The new ICL machines, the DRS 6000 series, follow the industry trend to reduced instruction set computing (risc) designs, where simplicity in chip design is set off against highly specialised software to give dramatically improved performance. ICL has been the target of extensive speculation over the past few years as its name has been linked with a range of possible partners both European and Japanese.

The computer industry world-wide is going through a period of consolidation and ICL has never made any secret of the fact that it is seeking a partner to help defray the heavy research and development costs which are essential for companies wishing to remain at the leading edge of information technology today.

Olivetti has been touted as a

possible partner, as has Fujitsu. Mr Arthur Walsh, STC chairman, says the ideal partner for ICL would have technological expertise in areas

where ICL is weak.
ICL is becoming, in any case,
more of a systems house, able to integrate hardware and software to provide computing solutions for its customers, than a hardware manufacturer, with particular strengths in local government - where it has a leading position in comlocal munity charge systems - and in retail systems. The second broad category of

UK computer companies includes the manufacturers of small computer systems. Amstrad, for example, is one of Europe's largest suppliers of personal computers, although its forte seems to be the small business and home computer market rather than the corpo-rate market where sales of its more sophisticated products for "power users" have been disappointing.

Psion, which concentrates on portable computers, grew sales by 63 per cent to £31.4m this year but its pretax profits at £3.4m were disappointing. It introduced, however, a remark-able range of "notebook" computers with extended battery life and powerful graphically-orientated software.

Personal computer manufac-turing, is an intensely competitive business, sensitive to economies of scale and offering low margins. Apricot, for some years, the UK's leading manufacturer of high performance personal computers or workstations has finally bitten the builet and got out of altogener, selling its hardware division including a manufacturing plant, research and develop-ment facility, sales and mar-keting organisation and an

Specialist software groups are expected to form the UK computer industry of the future

Australian subsidiary to Mitsu-

bishi Electric of Japan for £39m. Industry analysts thought the company got a good price. While the manufacturing division had external sales of about £70m (out of Apricot's 1989 revenues of £106m), its profits before group charges were £2.5m. Essentially. Apri-cot was making no money from its hardware operations.

There are a number of spe-cialist manufacturers in the UK who continue to exploit niche markets. Research Machines, for example, with a powerful base in college and university computing, announced one of the first computers to use intel's top of the line 80/486 microprocessor chip last year aiming it at the computer aided design market.

Opus Technology has been concentrating on data security and launched a product called Data Safe which uses physical barriers and two memory

barriers and two memory systems running in tandem to provide new levels of security and data integrity.

Acorn Computers, with Olivetti as its major shareholder. says it is achieving good acceptance of its "Archimedes" com-puter which uses 'risc' technology. Some 85 per cent of UK schools use Acorn machines.

There is also a tiny group of manufacturers building exotic machinery. Meiko, which builds arrays of transputers into supercomputers is one example. AMT, which has developed the ICL distributed

array processor, another.
The third category of UK computer companies involves a heterogeneous group of small companies, growing rapidly through organic growth and acquisition and specialising in particular areas of the computing services business. It includes Headland Group with particular interests in accounting software, Misys with diverse interests, Ferrari in maintenance and Kewill Systems specialising in manu-

facturing software.

It is companies like these which are expected to form the UK computer industry of the

Lively market in Japan

THE JAPANESE computer market is growing steadily in all sectors, with the exception of desktop publishing. One of of desktop publishing. One of the fastest expanding areas is engineering workstations. More powerful than personal computers and one stage below mini-supercomputers they are widely used in banks, securities houses, universities and

Competition also remains strong in the personal computer sector. In the year to March 31, 1989 sales topped Y760 bn — a leap of almost 20 per cent from the year before — with 1,670,000 units shipped. NEC Corp. is the clear leader in this sector, although it faces constant challenges from rivals, including Sharp, Toshiba, Missubishi Electric

and, increasingly, IBM.

Another sector to watch is the mainframe market, particu-larly supercomputers, follow-ing an agreement reached during Japan/US talks in March to open public sector procure-ment to foreign-built machines.

Workstations are becoming increasingly popular due to their low prices, high performance ability and Japanese language software applica-

The market is estimated to

The market is estimated to be worth nearly Y200 bn, with the 50,000 units shipped in 1989, nearly doubling the figures of the year before.

Sony Corp.'s suprise entrance on to the undeveloped scene three years ago with its NEWS workstations, shook competitors Digital Equipment competitors Digital Equipment Corp. Japan and Nihon Sun Microsystems. The 68000 series NEWS workstation carried a low price tag of Y2m, com-pared to the Y20m rate for US made total systems.

made total systems.

Following the promising debut, Sony Computer System Co. surged ahead with the NEWS series. It recently enlisted the skills of compettor Nihon Apollo Computer Inc.'s former president Shigeko Inaoka to lead the Y300m workstation subsidiary. Shipments of NEWS workstations continue to rise, posting 12000 continue to rise, posting 12,000

continue to rise, posting 12,000 units in 1969.

But industry watchers say the firm could have difficulty holding on to its high ranking. One of its two mainline products. PopNEWS, a widely-used basic model, costing less than Ylm, was recently found to be plaqued by bugs — and sales plummeted.

Workstation market leader.

Workstation market leader Nihon Sun Microsystems shipped 14,500 units in 1989. Yokogawa Hewlett Packard, which bought Nihon Apollo introduce a low-priced, speedy entry level machine in its HP

In the PC market, the average consumer in Japan is spoiled for choice. Browsing through the wholesale electronics centre in Tokyo's Aki-

The average PC-buyer in Japan is spoiled for choice

habara district, he or she is faced with a wide variety of operating systems - standard MS-DOS, OS/2 for 32-bit com-

MS-DOS, OS/2 for 32-bit computers, the kanji-based JS-Windows from Microsoft, and UNIX from AT&T that comes in both English and Japanese versions.

Most Japanese manufacturers are trying to hedge their bets to cover the diverse market, anxious not to commit themselves to any one western. themselves to any one system.
Canon, for example, produces a
PC in the AT/AX category, at
the same time acting as an
agent for Apple Computer and

agent for Apple Computer and maintaining an OEM deal with Hewlett Packard.

But NEC, with Japan's largest software collection, is hig enough to go it alone: Its mainline product is the PC-9800 series of 16-bit computers that uses the company's proprietary operating system. Compared to the previous year, sales of the PC-9800 rose by 30 percent to about 800,000 units in the year to March 1990.

The firm's 32-bit machine

The firm's 32-bit machine sales shot up by about 100 percent to almost 250,000 units, and laptop sales rose by a massive 150 percent to about 180,000 machines.

The notebook-size PC-9801. first shipped in December last year, reached 100,000 sales in just four months. NEC fore-Casts further rises in domestic PC sales in 1990: the target is Y460bn, up 15 per cent on this year, with sales of 1,200,000 units, up 20 per cent, a spokes-man acid.

NEC's rivals have wisely joined forces to fight the PC giant. In 1989, 10 companies agreed on a common, Japanese-language operating system for 32-bit PCs. This will enable groupment to tem for 32-bit PCs. This will enable consumers to use programs in any of the group member's companies a major breakthrough on the previously unco-ordinated Japanese PC market.

NEC is unlikely to be unduly worries as its sales are so strong But it surely recognises the need for a common system. In the mid-1980s, NEC agreed

to allow Seiko-Epson to produce an operating system fully compatible with its market-leading PC-9800 series. Within months, the Epson PC-286V was challenging NEC's popular PC9801-VX21 with its faster

PC9801-VX21 with its laster speed and lower price.
One of the latest entries on the market is Apple Computer Japan's new three-model series of its Macintosh PC. Twice as fast as earlier versions, the Macintosh 11fx range costs from Y1.5m to Y1.5m.
Toshiba – the pioneer of the

Toshiba - the pioneer of the small, lightweight, laptop PC market with its Dynabook series - now faces competition series – now faces compension from Sony, which introduced its Palmtop PTC-500 in April. The machine, the size of an A-5 sheet of paper and weighing just 1.3 kg, sells for Y198,000. It has similar capacities to laptop PCs, and an extra feature which Sony hopes will boost sples users can write directly sales: users can write directly onto the screen with an electronic stylns and, due to fuzzy theory techniques, the machine can decipher unclear handwriting.

Supercomputers, the top of the mainframe range, are incredibly fast, high-capacity

incredibly fast, high-capacity units used by scientists designing aircraft, weapons and other state of the art products.

Pressure had been building up as American makers, led by Cray Research, were finding it almost impossible to break into the highly-protected public sector supercomputer market, where Japanese makers' where Japanese makers' unrealistically low bids were invariably accepted by the Japanese government. The issue was one of three discussed in

Report by MARTINA GANNON In Tokyo

the bi-lateral Super 801 trade

Following the March agree-ment, Japan's three leading supercomputer makers, Fujitsu, NEC and Hitachi, will face competition from US and other makers. The Japanese machines are well ahead in peak performance ability, but lag in average operating speed, industry sources say. The leader, Fujitsu plans to launch what it calls the world's fastest supercomputer this year. The VP2000 will have a maximum calculation speed of 4bn flops a second. That is eight times fas-ter than Cray Research's Y-MP unit, but the US machine features eight simultaneous pro-cessors, compared to the VP2000's two.

maker, agreed in March 1990 to purchase Cray's Y-MP2/116 model for \$6m. It will be installed in October, for colli-

installed in October, for colli-sion analysis in the develop-ment of new vehicles.
Fujitsu, leader of the medi-um-sized MF sector in the year to June 1989, appears to have been overtaken by its rival, Hitachi, which recently launched a mainframe operat-ing system compatible with ing system compatible with IBM. The firm claims the dataprocessing capacity of the V053/AS is 8,000 times greater than other systems. If provides 16 trillion bytes for data stor-

age and processing.

Market watchers attribute
Hitachi's success in developing Hischi's success in developing the system to secret agreements made with IBM during the 1980s. Fujitsu; on the other hand, became embroiled in a long and heated copyright dispute with the US giant, eventually settled by the American Arbitration Association ordering Fujitsu to pay IBM about \$400 m. IBM was required to provide the Japanese firm with certain information necessary for software development.

The desk-top publishing (DTP) and electronic filing systems market has not yet reached its full potential, held back by high costs and poor software compatibility. Another area Japanese computer makers lag behind in is the creation of innovative software.

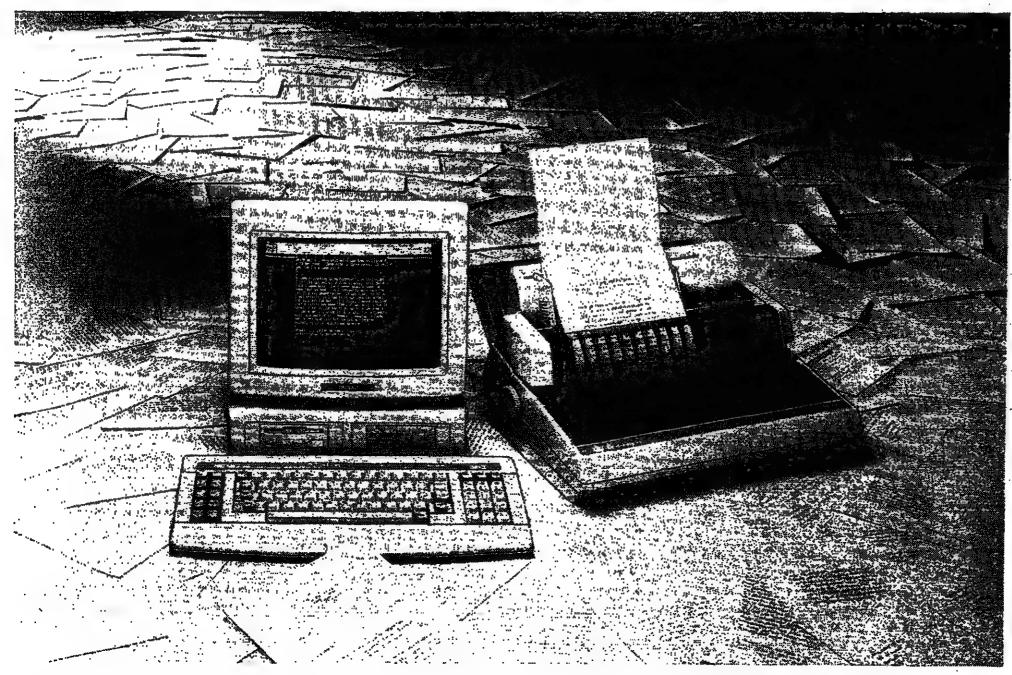
Ricoh Tokyo Computer Sec.

Ricoh, Tokyo Computer Service and Computeron plan to set up a joint software developing company in April. The firm company in April. The firm targets initial year sales of Y200m. Ascii Corp., a Tokyobased computer software and publishing company constrained by high city land prices, is planning to build Japan's first high-tech urban development. In the unique project, the firm aims to establish a personal computer software development and semiconductor production base and a city of about 50,000 people by the year 2000.

So the domestic computer

So the domestic computer market in Japan appears to be flourishing, despite setbacks caused by non-standardized equipment and non-compatible operating systems. One area in particular to watch will be notebook-type. particular to watch will be notebook-type computers. The Japanese skill for producing small but high-performance units is boosting this already competitive market. About 200,000 machines were shipped in 1989 and that figure is expected to more than double in 1990, according to telecommu-1990, according to telecommunications marketing firm Aquarius.

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rier specialist at IBM's Havant manufacturing plant, near Portsmouth, checks a 3.5in disk drive. IBM, the world's largest

computer company, has recently fared better in the UK than the US.

THE US MARKET

Uncertainty prevails

JOHN AKERS, IBM chairman late last year had a succinci prognosis for the state of the US computer market. "Stress and turmoil."

His words have seemed prophetic as the accelerating pace of technology change has combined with sluggish economic conditions to create enormous uncertainty throughout the

computer industry.

The effects are being felt even among the industry's giants: International Business Machines and Digital Equip ment have both undertaken major efforts to reduce their US workforces. Over the past year some 40,000 jobs have

year some 40,000 jous have been lost in the US computer industry.

Sales of computers in the United States this year are expected to total about \$50bn. More than half of this amount will be accounted for by sales of desktop personal computers, which sell for an average price

This enormous volume of sales - more than 12m units is nonetheless seen as a "slowdown" by many market analysts. It represents a growth rate, over 1988 sales, of ess than 9 percent, far lower than the personal computer market's growth of 20 percent and more in previous years.

The "squeeze" in the personal computer market is being felt primarily by lesser players while the market leaders - IBM, Apple Computer and Compaq Computer are gaining

While personal computer

Total computer systems

Corporate resource com Business unit computers

Work group computer

market growth is slowing. more powerful computer workstations are expected to maintain a heady 25 percent growth rate in the US this year to hieve total sales of close to

ment are involved in a pitched battle to outdo each other in terms of performance and price. Profit margins are being squeezed as prices are slashed. Digital Equipment, earlier this month, cut prices on its lowend workstations by 25 to 40 percent, for example.

Workstation market leaders Sun Microsystems, Hew-lett-Packard and Digital Equip-

The performance of these desktop "hot boxes" continues to accelerate, fueled by

advances in microprocessor chip design. The US computer market in 1989 with forecasts for 1990 and 1993 (\$m)

US computer manufacturers, 1989 revenues

computing based upon the "client-server" model in which

International Business Machines re-entered the workstation fray late last year with the launch of a new range of products that outperform all

IBM is expected to win a 10 percent share in the \$6.5bn world market for workstations this year to become a serious contender for the first time since the workstation market took off in the mid-1980s.

The increasing power of workstations and personal puters represents a major challenge to the traditional suppliers of multi-user "mid-range" computer systems based upon minicomputers.

Digital Equipment, the lead-ing minicomputer manufacturer, has addressed the challenge head on by mounting its own workstation defence. This month Digital unveiled a new range of high performance workstations aimed at both office and engineering applications which are providing pe formance close to that of IBM's new offering.

Hewlett-Packard, the number three IIS computer manufacturer after IBM and Digital, has similarly launched a renewed offensive in the workstation market through its acquisition of Apollo Com-

The proliferation of desktop workstations and personal computers led to the need for "local area networks" that link the desktop machines to allow them to share data. Now, the scope of networking is quickly growing to encompass all of the computer systems in a corporation - known as "enter-prise wide" networks.

Plugging together existing and new computers of different types from several different manufacturers is a major challenge. Unless it is done right, the result can be a system that uses much of its computer power just to translate data into forms that can be "read" by each of the computers on The need for "inter-operabil-

ity" between computers from different manufacturers is accelerating the trend toward "open systems" based upon industry standards, rather than proprietary systems.
In tandem with this switch is the move toward distributed

ers" such as printers, data-base storage systems and high speed computing units. All major US manufacturers have endorsed the concept of

"client" desktop computers

share the resources of "serv-

"open systems." Some, however, have done more to implement industry standards than others. Hewlett-Packard, an early proponent, is championing "open systems" throughout

its product range. Digital Equipment is also moving toward open systems, with its latest workstations and servers. Digital says that it aims to be the top supplier of open systems in the 1990s.

The growth of distributed computing is changing the role of the mainframe computer from that of a central "host" to that of a network "server." Mainframe computer sales dominated in the US by IBM, remain strong, the company

Over the past year some 40,000 jobs have been lost in the US computer industry, reports LOUISE KEHOE

claims. IBM is increasingly challenged, however, by the plug-compatible mainframe computer manufacturers, Hitachi Data Systems (formerly National Advanced Systems) and Amdahl Price competition in this segment of the market has become flerce over the past

Mainframe computers, far from being the dinosaurs, still represent about 25 per cent of total computer revenues in the US. With anticipated growth at a modest 4 per cent per year, however, the influence of the mainframe on the overall market is gradually diminishing.

At the very top of the performance scale in computing. there has been a proliferation of new approaches to "super-computing" with the emer-gence of new important classes of computers known as minisupercomputers and parallel mini-supercomputers from companies such as Convex Computer and Alliant.

These systems provide power close to that of a multi-million fraction of the price.

ompaq makes another sizeable contribution to personal computing.



A world leader in portables presents two new lightweight battery powered portable PCs, the COMPAQ LTE and COMPAQ LTE/286.

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WEST GERMANY

Wave of mergers predicted

NIXDORF made its reputation by standing tall to computer giants such as Siemens and promoting its own proprietary operating systems - the kind of pride which helped cause the company's financial problems and made it vulnerable to

a takeover.
Nixdorf had previously known only successes: it could not recognise the need to adapt to market changes early and concentrated too heavily on geographically narrow markets. It needed a partner with a stable financial base, and Sie-mens - with the joint acquisition of Plessey from GEC and Rolm Communications from IBM behind it - easily added Nixdorf to the list.

Few analysts believe Nixdorf will be Siemens' last acquisition - and many predict an uncertain future for other companies, such as SEL, ICL and Philips in the light of Siemens drive to become the industry's pan-European player. In the words of one telecommunications company spokeman 'Nixdorf's fate unfortunately awaits still more companies. International Data Corp (IDC) marketing executive,

'Companies no longer have a choice. In the long run, it's either acquire - or be acquired'

Mark Buffett, said he expects other computer firms to join Siemens - or be "swallowed

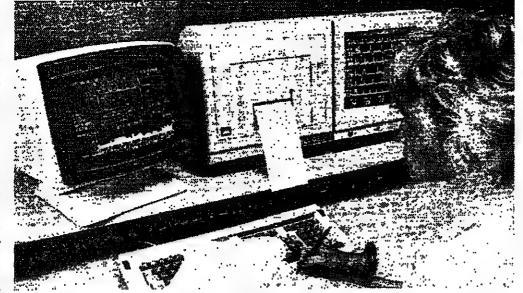
He does not hold Siemens to be a "direct threat" to other information technology (IT) companies, but does maintain that the creation of Siemens-Nixdorf Informationssysteme AG signals the start of a wave of mergers and acouisitions that will drastically change Europe's computing landscape. Buffett added: "Companies no longer have a choice. In the

long run, it's either acquire or be acquired."
In the end, Buffett says. Europe's computer industry will be populated by a number

of small companies catering to

niche markets and a handful of

'globai player" computer giants - one of which will inevitably" be Siemens. Based on information from



patient monitoring system in West Germany: here, a technician operates a patient data management system, produced by Hellige of Frei burg. The system provides centralised monitoring of car disc-risk patients — a data storage facility provides more than 58 hours of ejectro-car diogram readings, allowing doctors to check amd analyse heartbeat irregularities

IDC's trends and issues report, the union of Siemens and Nixdorf creates an IT operation which rivals IBM in Europe and has successfully bumped DEC down a notch to third

In terms of the home market of West Germany, Siemens and Nixdorf overhaul IBM to take first place. On 1988 revenues Western Europe, Siemens-Nixdorf would have IT revenues of nearly \$8.2bn, some 73 per cent more than their near est rival DEC, but still only 40 per cent of IBM's revenues.

For this reason, Buffett says,

Total European market: \$50.4 billion in 1988

· Banking & financial

European computer hardware

the balance in Europe has been affected - a development that will "force DEC and others to take a good hard look at their marketing strategy for the

The strengths of the Sie-mens-Nixdorf fusion do not rest in the size of the operation alone, says IDC. The power of the combination rests in the fact that Nixdorf's strengths complement Siemens' weaknesses. Nixdorf has been able to build up its market presence in France, Spain and Britain the same countries in which Siemens has been unable to hit

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but significant US presence which provides Siemens a chance to penetrate the US market with its telecommunication equipment. In terms of the actual product lines, Siemens is strong in the large-scale systems sector, while Nixdorf has its strength in the small-scale system sector.

The report concludes that the two together create a pow-erful global player, and, as a result, become "the largest indigenous computer company, and one which can more readily compete with its US

In 1987-88, for example, Nixdorf increased its market

share in the UK by a total of 40

per cent. It also enjoys a small

The Frankfurt-based Diebold Germany analyst, Dr Gerhardt Adler, says IBM and DEC do not have reason to fear compe tition from Siemens-Nixdorf yet - that will come when other companies forces with Siemens-Nixdorf to make a super-sized computer company.

Adler says the fusion only marks the start of further such alliances, and ones that will not necessarily exclude the

Diebold's director of business planning, Dr Fritz Jagoda,

ther and says he can imagine the eventual formation of a kind of "Trans-atlantic alliance," spurred on by the fusion of the possible involvement of

Siemens-Nixdorf have changed Europe's computer landscape, but Dr Jagoda con-tends the companies neither upset the balance nor present a threat. He adds: "The develop-ment has upset the calm in the

While it is clear that the formation of Siemens-Nixdorf will change the industry, may present a threat and does signal the beginning of what IDC calls "another chapter in the dynamics of the European computer market," analysts are unclear about what problems the companies, as well as their users, can anticipate.

Siemens-Nixdorf is faced with the problem of pulling together two very different corporate cultures and two largely dissimilar approaches to customer support.
The Siemens user group, Sie-

mens-Informationstechnik Anwenderverein (SAVE) fully supports the fusion because it

The strengths of the Siemens-Nixdorf fusion do not rest in the size of the operation alone

giobal supplier. But a number of problems face Europe's users, according to SAVE spokesman Joachim Zeller. He lists the difficultles: Siemens and Nixdorf might be more concentrated upon themselves than concerned about the cus-tomers' problems – and a drop

in overall quality might result. The Reading-based X/Open vice-president of communications, Paul Tate, says the "might not neces be the best way to respond to the growing demand for a pan-European network, but it represents one way in which companies can come to terms with an increasingly market-driven industry."

Mr Tate says he does not

recognise the presence of a threat since "weights are only being re-arranged at one end."

X/Open is an independent non-profit consortia, estabed in 1984, "to bring greater value to users from computing through the practical implementation of open systems."
On the subject of open systems, Mr Tate says that Sie-

mens-Nixdorf could end up indirectly supporting X/Open's goals because it creates a major force in supporting stan-

Some analysts maintain the fusion could even speed Europe's move towards stansolutions. Both Siemens and Nixdorf support these so-called open systems. Sie-mens' solutions are based on the Unix operating system, and Nixdorf has also put more effort into Unix systems after realising that it was the company's own refusal to move to

'The Siemens-Nizdorf fusion marks the start of further such alliances'

open systems which accelerated its slide in the first place. Open standards are supported by the European Community. Supporting counties promote Unix because it allows compatibility – a significant plus in intra-governmental communications in a Europe without

So far, IBM and DEC have been able to ignore this trend and promote their own proprietary systems. As a result, Unix-based systems remain largely incompatible with IBM and DEC systems - and often the user has to suffer the consequences. But Diebold's Dr Jagoda says this, too, will change. Unix, he adds, has not been forced enough by the EC, but it will "receive a push from Siemens-Nixdorf."

Peggy Trautman

FRANCE

Producers sailing in rough waters

LIKE its competitors, Group Bull, the flagship of the French computer industry, is sailing in rough water these days.

Mr Francis Lorentz, its 48-year-old chairman, took over from the retiring Mr Jacques Stern at the helm of the stateowned company last summer at a particularly troubled time in its perenially difficult for-

The company, which rivals Siemens of West Germany for first place in the European computer market, reported a Ffr267m loss for 1989, the first time it has fallen into the red for three years; it was a symp-tom of the problems affecting the world's leading computer

The reasons for the loss are a combination of production difficulties at Bull's enormous printed circuit-board plant at Angers, the dollar's unex-pected strength — which meant Bull had to pay more for semiconductor chips and peripheral equipment - plus heavy restructuring costs.

There were also the charges associated with assimilating last year's acquisition of Zenith Data Systems, the US microcomputer producer, still marred by a disagreement over the price that Bull should pay. Last year's results are even worse that earlier predicted by a cautious Groupe Bull, which

comprises Bull SA and Bull HN. the former US-based Honeywell Bull, 69.4 percent owned by the French company, with 15 per cent held by NEC of Japan and 15.6 per cent by Honeywell of the US.

Yet Mr Lorentz, who like many of the French state sector's management elite, is a product of the Ecole Nationale d'Administration, feels that future presents as many opportunities as challenges for Bull.

"The market is not funda-mentally saturated," he told a recent press conference. At the same time, Mr Lorentz has no doubts about the seriousness of the slowdown, even for microcomputers, which he argues will continue to bring realignments and acquisitions, of which Bull's own takeover of Zenith is a prime example.

Like its competitors, Bull ses the main factor behind the industry's upheaval as the shift away from the central corporate computer towards data processing using smaller and cheaper machines.

This has encouraged the emergence of the wide range of industry standard, low margin products, particularly from South East Asian suppliers which has, says Bull, been accompanied by price competition of the toughest type. So how are Bull and its new

chairman responding to the chairman responding to the deep changes reshaping the world computer industry?

On taking over last June, Mr Lorentz, who joined Cli Honeywell Bull as president and chief operating officer in 1982, outlined six key objectives for the group, the first-of which is to become by the middle of this decade Europe's top supplier of

decade Europe's top supplier of integrated systems. By this he means a group that puts together different kinds of computers and software for the whole range of specific applications, so adding value to basic hardware, a pol-icy already being followed in a number of specialised areas by

Bull's main European competitors.

The second is to develop products suitable for networking with hardware from other

Bull is already doing this by integrating its own proprietary machines with products based around the Unix operating system, as well as through its role as being a founder member of the Grenoble-based Open Soft-ware Foundation, for the development of industry standard

Mr Lorentz believes these ambitions can only be realised if Bull is active in the US, a development needed to establish its image as a world player, as well as to gain

FORTHCOMING FT SURVEYS

Computers and communications AMONG the forthcoming FT surveys related to the computer, electronics and communications industries

will be the following: Automatic identification... ☐ Computer Security...... June ☐ Japanese Computers June 🗆 Desktop Publishing..... □ Personal Computers. . September Office Systems and Technology....... Using Computers..... October Computers in Finance October

Among the recent surveys which have featured computer-related topics were EUROPEAN HIGH TECH-NOLOGY, published on Tuesday, March 20, and INTERNATIONAL TELECOMMUNICATIONS, on Thursday, April 19, 1990.

Editorial synopses for these surveys can be obtained from: The Financial Times, Number One, Southwark Bridge, London, SE1 9HL. Tel (01) 873 3337 (direct line to Carol Bilelchuk, who also has the publication dates of other surveys already published).



Groupe Buil: ideas for

access to technology there. Clearly, the takeover of Zenith has been a big step in that direction, lifting Bull from the world's tenth to its seventh largest computer manufac-turer. Bull, which now makes 70 per cent of its sales outside France – last year's total turnover was Fir32.7bn — plans to be among the top five in the early 1990s.

Zenith gives Bull a complete microcomputer line, from 'low end to high end, for both desktops and laptops and substan-tial market positions both in

Francia Lorentz says that the future presents as many opportunities as challenges for Buil

North American and Europe, and sufficient volume to com-pete effectively on a global scale," said Mr Lorentz at the

time of the takover.

His fourth goal is to improve
Bull's productivity and profitability, mainly through simpli-fying the product line and trimming development costs, a process which Mr Lorentz slieves will take four to five

Linked to this is goal five to boost management skills, an area which Mr Lorentz feels has received insufficient attention over the year because of the problems faced by both Groupe Bull and Honeywell

The final aim is to encourage Bull to behave more like a single European company, rather than two separate businesses, by hiring staff at a European level and setting up common

training programmes Earlier this year, Mr Lorentz unveiled a far-reaching reor-ganisation, designed to give Groupe Bull a more coherent structure to help it tackle the fast changes in the computer

industry.
It involves splitting the It involves splitting the group into four units, reporting to a central entity, Compagnie des Machines Bull, which will have responsibility for strategy, product line policy, human resources and the integration of research and development across the world. copment across the world.

The units are:

Bull SA France, with 19,000 people running development, manufacturing and sales in France.

■ Bull International SA, with 6,000 people running most of Europe, plus Africa, Latin America and south-east Asia. Bull HN, comprising 19,000 staff responsible for North America, Mexico, Italy, Britain

and Australia.

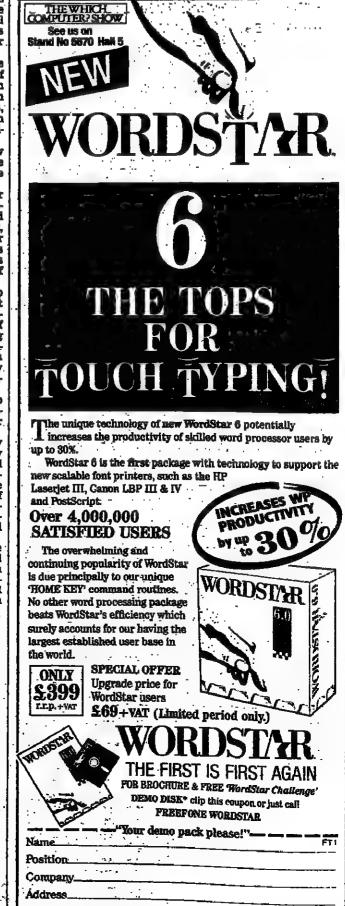
Zenith Data Systems, in charge of development, manufacturing and sales of the group's worldwide microcom-puter and workstation products, accounting for roughly a third of the French group's

overall sales. If that is Mr Lorentz's battle order for the start of the decade, the signs are that he has not finished yet.

When asked by a French business magazine recently whether he might consider some form of alliance with Siemens, Mr Lorentz replied: Two businesses can be competitors and partners at the same time.

"In the face of the Japanese threat, it is desirable that we have a common European . I have a certain stance . number of ideas for ambitious

Henri Labrii



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AST: Ten Years Of Achievement

Founded in 1980, AST Research was one of the first companies to offer expansion boards to increase the power and functionality of the IBM PC. One of their first products, SixPakPlus, was to become the largest selling enhancement board in history, and is still one of the most popular products of its kind today. But that was only the opening chapter in AST's rise to becoming one of the world's most respected makers of microcomputers and related products.

The early days of enhancing IBM's open architecture PCs provided a strong foundation for AST to apply its expertise. And in late 1986, they introduced the ultimate enhancement — their first computer, the AST Premium/286. Building on an excellent reputation for hardware and software compatibility, quality and reliability, the Premium/286 was a runaway success with both industry experts and

customers.

Able to build on a strong multiple channel distribution strategy put in place for the earlier board-level products, AST computers were soon being marketed through a variety of channels throughout

the world including major chains, independent dealers, value added resellers (VARs), large distributors, OEMs and U.S. government (GSA) approved dealers. Now, AST computers are found on desktops in businesses everywhere — from the very small to over 60% of the nation's largest — and in government agencies.

Today, AST offer a full family of computers — one for every performance and price range, for a variety of business and personal applications — from the entry-level Bravo/286 and Bravo/386SX to the high-performance Premium 386 and i486 based systems. They also continue the tradition of enhancing systems by offering award-winning memory, multifunction and graphics products, and provide for customers' connectivity needs with LAN, 5250 and 3270 products.

A cornerstone of AST's technological leadership is the growing popularity of the patent-pending Cupid-32 (Completely Universal Processor, I/O Design) architecture. This technology separates components according to whether or not they are likely to change as microprocessors advance. All hardware that is dependent on the type and speed of the processor, including the microprocessor, cache memory and numeric coprocessor are located on a plug-in, printed circuit board.

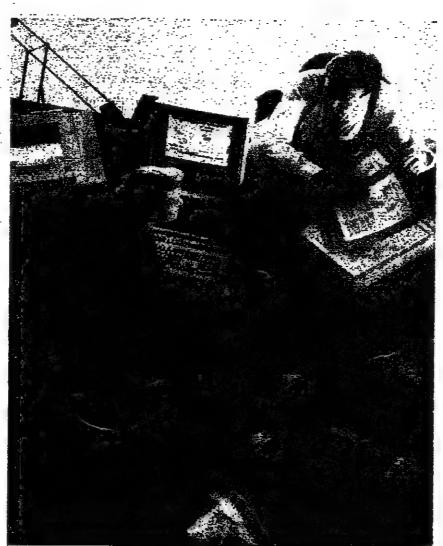
As a result, customers can avoid desktop obsolescence by upgrading AST's Cupid-32 Premium computers to the next level of performance by simply replacing a board. Upgrades can be completed in a matter of minutes, and can be accomplished throughout the Premium product line, from 386SX to i486-based products and beyond.

The underlying flexibility of Cupid-32 technology also allows AST to respond to changing market conditions with a very rapid product development cycle. In fact, AST was the first company to announce shipments of ISA i486 computers based upon Intel's

announce shipments of ISA i486 computers based upon Intel's production release version microprocessor.

AST's corporate headquarters are in Irvine, California but they

are truly a worldwide company, marketing products in more than 77 countries. They also build them around the world, and design them to fit international requirements — AST manufacturing facilities are located in the United States, Hong Kong, Europe and Taiwan and AST support them wherever they are installed with offices established throughout the U.S., Europe and in Canada and wholly owned subsidiaries in the United Kingdom, France, Germany, Switzerland, Italy, Hong Kong, Taiwan, Australia and Japan.



Over 2,000 employees are dedicated to delivering the highest quality desktop computers and related products. It's a commitment that begins long before the products reach the desktop. And it's demonstrated in every area of the company.

AST's engineering and marketing teams work closely together to design innovative products answering the needs of the marketplace. Starting at board level design, AST

uses CAD/CAM and surface mount technology to reduce component size and product cost. ASIC (Application Specific Integrated Circuits) technology is another key strategic asset allowing AST to remain a leader in product development. With ASIC, AST can envisage and create custom products that provide exceptional value and ease of upgradeability.

AST's commitment to quality is second to none, and it allows them to boast one of the lowest return rates in the industry. Thorough examination and testing are prevalent throughout the entire manufacturing process, including a complete burn-in process for every computer. Reliability labs, agency compliance testing (FCC, UL, CSA, VDE, etc.), product safety labs and compatibility labs also ensure quality. A few of their commitments to compatibility include unique enhancements to BUS technology allowing faster operation and selectable CPU speeds for strict software compatibility.

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A LEGACY OF AWARD-WINNING PRODUCTS

1983

► AST's first memory/multifunction board, ComboPlus", earns two first-place titles in the PC "World Class" Competition.

1984

- ► SixPakPlus[®] ranks No. 1 on the Softsel Hot List for the first time. It would remain on the hot list for most of the next five years. It becomes the standard against which all multifunction boards are compared.
- ▶ SixPakPlus named the favourite memory/multifunction by PC World readers in its "World Class" competition. Readers would choose it again for the next five years. SuperDrive chosen top disk emulator.

1985

- ► Rampage! selected the "Most Significant Product Of 1985" by PC Week.
- ► AST's LAN product ranked among top six by PC World.

1986

- ► Rampage! rated excellent in five categories and earns top score by The Journal of Corporate Computing.
- Computer Reseller News names AST top add-in board supplier.

1987

- ► AST Premium/286 awarded Editor's Choice by PC Magazine.
- "The Best Of 1987" award is presented to AST for the Premium/286 by PC Magazine.

1988

- ➤ Premium/286 merits PC Digest's top rating, and is the only system to earn overall rating of excellent.
- ► LAN Magazine recognises the AST Premium Workstation/286 for its sleek design.
- ➤ Premium/386 named top-ranked 386 system by InfoWorld.
- ► AST picks up Reader's Choice awards in six categories of PC World's "World Class" competition — AST Premium/286, SixPakPlus, Rampage-AT, Advantage® Premium and SikPak-Premium with the Premium/386 voted one of the most promising newcomers.
- ► AST rated number one in technical support in PC Week survey.

1989

- ► RampagePlus 286 voted best EMS 4.0 board and wins "Product Of The Year" award from InfoWorld.
- ▶ Byte magazine gives AST an award of excellence for its work with EISA.
- ➤ AST Premium 386/25 earns the highest score for 32-bit memory upgrade in PC Week "Scoreboard."
- ► InfoWorld magazine gives the AST Premium 386/33 its "Best in its Class" distinction.
- ► Government Computer News readers select the AST Premium/286 as their top choice.
- ► PC World selects the AST Premium 386/33 as its "Best Buy".

1990

- ► AST Premium 3865X/16 earns the PC Magazine Editor's Choice award.
- ► The German publication, Computer Persönlich, reviews the AST Premium 386SX/16, ranking it number one.

Manufacturer's profile: Olivetti of Italy

WITH LAST year's earnings at Olivetti, Italy's leading computer manufacturer, due to be announced in a matter of days, there are no prizes for guessing which way profits will go.

Speaking to the press in February, Mr Vittorio Cassoni, the group's highly-regarded managing director, admitted that net profits would fall by slightly less than the 45.7 per cent average posted by the 18 leading US computer hardware makers. First half pre-tax sarnings have already fallen by 40 per cent to L103bn.

And, although sales rose by 7.5 per cent to over L9,000bn from L8,407bn in 1988, the company warned that its dividend would be cut from the L340 a share paid previously.

While analysts and shareholders wait to hear the full results. Mr Cassoni himself remains bullish about the future. Pointing to the severe problems of rapid downsizing and sharply declining margins which have afflicted much of the world computer industry, he argues that Olivetti has already crossed a bridge that some of its competitors have yet to confront.

Underlying his confidence is the radical restructuring which Olivetti pushed through in 1988 whereby vertical integration gave way to a much more market-dictated organisational strategy. Jobs have been cut—with the prospect of some further small loses to come—while the company had addressed the problem of product innovation through a new family of powerful workstations based on "open systems".

Olivetti's most recent launch, its CP486 "computing platform" unveiled last October, and one of the first machines in the field based on Intel's new 486 microprocessor, marks a further blurring of the traditional divisions between minis personal microcomputers.

Confusing at the outset, the group's current division into four separate operating companies has been an essential tool in surviving the far more difficult trading conditions now facing the industry, insists a

spokesman.

Based on its 1989 figures, Olivetti Systems and Networks (OSN), the main subsidiary designing and producing personal computers, minicomputers and local area networks, accounted for about 55 per cent of group sales last year, with some 27,000 employees and sales of around L5,000bn

Meanwhile, Olivetti Office.

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which is responsible for a range of office equipment, including typewriters, faxes and computers, follows with 36 per cent of turnover. Then comes Information Services, the system integration division, with 5 per cent, and lastly, the Technologies Group, which makes a range of hardware for the information tech-

nology business accounting for about 4 per cent of total sales. As a second part of the strategy, the company has been attempting to build on a already established presence in areas like banking branch

Report by HAIG SIMONIAN

automation and government business, where it has a size-

able market share.
Following its \$174m purchase last year of ISC, a US banking automation equipment maker which has been combined with Olivetti's existing Bunker Ramo subsidiary, the group has jumped to second place among makers of bank automation computer systems in the US, with a market share of around 28 per

Recent months have brought a host of international orders for the group's banking technology. Last month Lyonnaise de Banque, the French financial institution, added its name to the list with an order for 600 of Olivetti's mid-range P500 personal computers to be used as work stations for automating back office functions.

The value of the order has not been disclosed, but Olivetti is hoping that it may be selected to fill the rest of the bank's 1,650 unit total require-

But "order of the year" still goes to Rabobank, the Dutch banking group, which last year announced its plan to buy 2,000 Olivetti LSX minicomputers and 25,000 PCs, representing an initial investment of Fl 750m.

Meanwhile in the UK, the company has scored a hit by being chosen by the Post Office for an order to help automate its business, as well as supplying computers to a number of

leading building societies.

While there has also been progress on the government side, Olivetti's hopes of breaking into computers for the retailing business remains largely in the pipeline. The rationale behind the strategy is clear. There are close similarities between banking and retailing automation, as Mr Cassoni points out.

Moreover, the two areas are, if anything, drawing steaduly closer thanks to the growing presence of electronic point of sales technology. However, major orders have yet to come for Olivetti.

Meanwhile, the company remains tight-lipped about potential collaborative deals, such as the recently reported suggestions of a link with Philips — "exploratory talks are ongoing as regards specific technological areas, among which are printers and components" says a spokesman. But any suggestion of closer collaboration, or of Philips bidding for the Italian group, which last year was the world's second biggest producer of PCs in terms of volume and fourth biggest in terms of value, is strenuously denied.

Likewise rumours about changes of ownership of any of its operating divisions. Such talk has become more prominent since the 1988 restructuring, which potentially made it easier for the company to spin off specific parts of the group. Against the background of the last year's collapse of its reciprocal small computer marketing agreement with AT&T, the US telecommunications giant, which has a direct interest in Olivetti. The room for such speculation has undoubtedly

Events so far have confirmed the company's intention to retain its present structure and fight out any problems in the market-place, although the message has still not fully penetrated the bourse, where the group's shares have moved with every new hint of change. With the additional responsibility for OSN now on his plate, following the decision by Mr Luigi Merrurio, its managing director, to step aside, it is now up to Mr Cassoni to show that Olivetti is on a steady—and winning—course.

THE SMALL, exclusive world of supercomputers has undergone a profound transformation in the past few years. In 1988, it was a simple business, dominated essentially by two companies. Cray Research and Control Data, both of the US.

Cray had a two-thirds share of the 350 or so true supercomputers installed worldwide. While there were reports of very fast machines from the Japanese manufacturers, Fujitsu, Hitachi and NEC, the US companies seemed to have a stranglehold on the market for the foreseeable future.

Since then everything has changed, and the market is in a state of flux. The major differences are:

■ The overall supercomputer

market is fragmenting into a series of niche markets, each distinguished by a particular technology and a particular level of price performance.

Cray, while still making the fastest available commercial computers, is finding it difficult to dominate the new market as easily as it did the old. Cray itself has split off its advanced systems division under the direct control of founder and chief designer Seymour Cray as a separate company to protect its development activities from the vagaries of the stock market.

Control Data, with a history of shaky finances, decided to pull out of supercomputers, rather than continue to invest the \$100m or so each year in research and development

■The rise of the minisupercomputer, exemplified by machines from Convex Corporation, has opened the frontiers of supercomputing to a broader group of customers. ■IBM, after an absence of some years, is once again a supercomputer manufacturer. ■The full strength of the Japanese challenge has yet to be revealed, but nobody doubts they are already a force to be reckoned with.

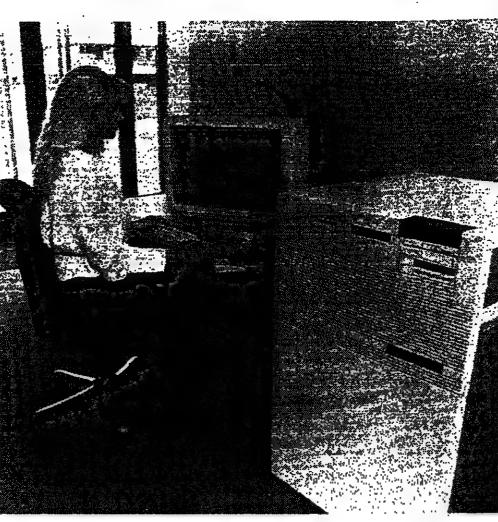
expenses to stay ahead of the

What has made the difference is the emergence of computers with a substantial proportion of the performance of a traditional supercomputer at a fraction of the cost. The ploneer was Floating Point Systems but the leader today is the US company Convex.

The rationals behind the success of Convex, whose sales rose by almost 60 per cent in 1989, is that while many companies have tasks which require near-supercomputer performance, very few companies can justify the \$15m to \$25m asked for a top-of-the range Cray or NEC machine.

Louise Kehoe sums up the world of supercomputers

A 'mini' transformation



Stardent's 2040 series graphics and departmental supercomputers range

But there are a host of tasks to which near-supercomputing power can be put. The design of pipework, architectural structures, mechanical simulations and so on. According to the most recent figures, technical computing, which includes scientific and other forms of numeric-intensive computing, will represent about 23 per cent of the \$204bn market for data processing equipment by 1993. Technical computing is growing at 18 per cent a year worldwide, 23 per cent in

High-powered workstations are also beginning to encroach on supercomputing turf. Figures from IBM on a reservoir modelling test program show that a Cray XMP completed the calculation in 2.9 seconds while

a Convex C210 took 12 seconds. IBM's new workstation, the RS/6000, at 7.7 seconds, fell between the supercomputer

and the minisupercomputer.

The threat from minisupercomputers is so strong that Cray has agreed to buy for \$35m Supertek Computers, partly owned by Yokogawa Electric of Japan, and will market its S-1 minisupercomputer which is compatible with Cray's machinery.

At the other end of the scale, Seymour Cray has been development.

At the other end of the scale, Seymour Cray has been developing the Cray 3, an innovative machine using chips made of gallium arsenide, giving about three times the speed of silicon, and which takes miniaturisation to such a degree that the system modules have to be assembled by robots. The new machine is expected to be launched next year.
Cray's business, however, is growing comparatively slowly
at about 8 per cent a year.
Most companies which can justify the cost of a Cray have already made the investment,

There are also a number of specialised companies producing "massively parallel" supercomputers. Examples include the US Connection Machine, and the UK Melko Computing Surface and AMT which markets a development of ICL's distributed extra processor.

so the market is close to satu-

distributed array processor.

IBM has never been noted for its interest in supercomputers. More than 30 years ago it built a machine called "Stretch" and more recently

offered its model 370/195 for scientific computation, but in general the world's largest computer company has always regarded the investment in supercomputing research and development as too great for the return involved.

Since 1986, however, it has installed its 3090VF model at more than 400 sites worldwide. Whether or not the VF (vector facility, the feature which gives the machine its ability to tackle scientific computations) is a true supercomputer, is really a matter of semantics.

For a large number of customers, the 3090VF represents affordable supercomputing power. A six-processor system costs in the region of \$10m, about half the cost of a Cray or a Japanese supercomputer.

Mr Peter Rowan, manager of

Mr Peter Rowan, manager of technical and scientific computing for IBM in the UK, says IBM's approach is quite different from Cray or from the Japanese manufacturers.

ent from Cray of from the sapanese manufacturers.

He anticipates a networked system where a RS/6000 workstation would be connected with the 3090VF and, possibly, a new supercomputer being developed with IBM's support by Steven Chen, an ex-Cray computer engineer. The Japanese manufacturers are still something of an enigma. They are worrying all the big supercomputer manufacturers. Mr Rowan says: "They scare me, because I do not know where they are coming from".

they are coming from ...

Since 1981, the six leading
Japanese computer companies

Fujitsu, Hitachi, Mitsubishi,
NEC, Oki and Toshiba — have
been involved in a \$100m project funded by the government
to develop supercomputers
1,000 times faster than those
available at the start of the

DUIE

corp

There are two principal research areas, densely integrated, high-speed logic and memory chips using gallium arsenide and advanced circuitry and high-speed parallel processing techniques.

The market is changing

The market is changing politically as well as technically. Last month, the US and Japan announced an understanding designed to help the US sell its supercomputers to Japanese government agencies and institutions by ending the sharp discounts offered by the Japanese computer manufacturers.

"The '286 is a tortoise,

"It was the very latest thing when we bought it. Now, with the prices of '386 machines falling like snowflakes we were tempted.

But could we afford the cost of the accompanying new networking software?

I didn't buy a computer network to be behind the times.

"Yes we could – thanks to VINES/386
Team from Banyan, the US network specialists.
Team's only a third of the price of the competition's '386 version – and almost as inexpensive as '286 networking software.

"Team's designed for the smaller workgroup – up to ten workstations, yet it's still a full network capable of tying into remote PCs, minis and mainframes.

"Team's easier to use than the network we were accustomed to. And as for our existing network cards, cabling, applications software... everything all works just fine.

"We still have the old '286 - it's my workstation now. For that, it's a whizz."

Contact Banyan Systems Europe, Banyan House, Northwood Park, Gatwick Road, Crawley, West Sussex RH10 2XN England. Tel: 0293 612284.



PC NETWORKING SYSTEMS

Louise Kehoe analyses the 'dinosaur' factor

Mainframes are alive and well

REPORTS of the impending death of the mainframe computer have been greatly exaggerated. Far from being the gerated. Far from being the dinosaurs of the computer age, as some have called them, mainframes will continue to play a vital role in business computer systems for the foreseasable future.

seeable future.
The introduction of desktop workstations with "mainframe computer performance" is often mistakenly seen as the death knell of traditional mainframe computers. While the latest microcomputer technology can indeed shrink the raw unressing power of a religious control of the processing power of a cabinetsized mainframe on to a few chips of silicon, the two are hardly comparable in terms of the functions they can per-

While desktop computers have taken over word process-ing and spreadshest applications which used to be per-formed by mainframes, these smaller machines cannot replicate the data storage and retrieval capabilities of the mainframes, argues Sanjiv Hingorani, computer industry analyst at Salomon Brothers. of mainframe computers have not been impacted by the advance of microcomputer technology. Indeed, the main-frame segment of the total market is now significantly smaller, in terms of revenues than the personal computer

Computer buyers are putting a larger portion of their data processing budgets into networking and desktop comput-ers than they are into the pur-chase of new mainframe

Computer manufacturers, driven by market trends, are similarly swayed toward emphasising microcomputers in their marketing, sales and development efforts.

The growth of the mainframe computer market has slowed significantly over the past few years.

Analysts forecast growth

this year of about 4-10 per cent, far below the double digit growth rates of the personal computer and workstation seg-ments.

World sales of mainframe

according to International Data Corporation, a US market anal-

The analysts predict that in 1993, sales will total about \$23.5bn, growing by just 12 per

cent over four years.
Yet the rise of networked computing, in which desktop, minicomputer and mainframe are linked by corporate wide networks, may actually lead to resurgence in mainframe sales in the mid-1990s, some

analysis now believe.
In this "distributed computing" model the mainframe computer takes on a new role. No longer the central processor upon which most applications are performed, the mainframe becomes a repository for huge quantities of data.
"We believe mainframes will become database servers as

IBM dominates the world market for maintrame computers with an estimated market share of 60 per cent. Among US maintrame computer vendors, IBM's lead is even stronger, with a 75 per cent share of worldwide shipments by US companies in 1989.

However, compatition is opposed to application executors," says Mr Hingorani. However, competition is Leading US mainframe man ufacturers are developing soft-ware and networking technol-ogy that integrate mainframes into heterogeneous computer mounting, especially from Jap-anese makers of computers networks and provide ways for

functionally equivalent to IBM's and able to run IBM soft-

unicate with mainframe

ranging from PCs to main-frames, by defining the inter-faces between software applica-tions, databases and computer

IBM dominates the world

IBM, for example, has estab-lished its Systems Application Architecture which will link from its traditional 90 per cent, according to market analysts. its incompatible product lines.

In the second half of last year IBM mounted an aggressive effort to protect its market share and boost mainframe sales through heavy discount-ing which forced competitors to pare margins reducing profitability throughout the mainframe market.

According to industry analysts, IBM has now modified its strategy and prices are firming after a precipitous fall last year. None the less, isolated reports of heavy discounting by IBM continue in the US. As the role of the mainframe

computer changes, IBM is also facing increased competition from new directions. Last Octo ber, Digital Equipment entered

dubbed the "mainframe for the

but faster: IBM's new 3390 Direct Access Storage device equals the capacity of the old 3380K in the background

With performance equivalent to that of IBM's most widely used 3090 mainframes, and significantly lower prices, the VAX 9000 represents an aggressive challenge to IBM.

Digital is not expected to steal large numbers of IBM customers who have huge investments in software and training that tie them to the number one computer manufacturer.

By extending its product line into the mainframe class Digital may, however, be able to prevent its minicomputer users from looking to IBM for more powerful computers as their needs extraord.

Digital is also expected to win sales among users defecting from others such as Unisys, Control Data and Bull HN includes Honeywell's computer

operations).
The VAX 9000 is specifically designed to be linked into distributed computer networks, many of which already incorporate Digital's minicompu-

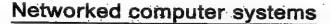
IBM also faces increasing competition from companies such as Tandem Computers widely used in banks and financial institutions where a computer failure could spell

A new generation of computer manufacturers such as Sequent and Pyramid, offering powerful parallel processing machines built from hundreds of microprocessors also repre-sent a challenge to established

mainframe producers.
For IBM, the shifting patterns of mainframe computer IBM's 3090 is nearing the end ing to market analysts. Although some had expected IBM to offer a speeded up version of the 3090 later this year. industry reports now suggest IBM has abandoned plans for

this performance booster. It will be late 1991, according to analysts, before IBM begins shipments of its next generation mainframe computer, codenamed Summit, although the new product line may be announced this year. Summit is expected to provide a big performance boost that will

stimulate demand.
By the mid-1990s, the convergence of new, more powerful IBM mainframes and increasing demand spurred by the spread of distributed computing may boost the growth of mainframe sales giving the "dinosaurs" a new lease of life.



Route to new corporate capabilities

history of the computer as a commercial product, the pri-mary focus has been upon technology. As the fourth decade of commercial comput-ing begins, however, computer manufacturers and users alike are finally turning their attention to the real purpose of com-puterisation - the quest for increased productivity and solutions to real business prob-

The technologies of the past three decades — mainframe computers in the 1960s, minicomputers in the 1970s and personal computers in the 1980s all have a role to play.

LOUISE KEHOE highlights a fierce battleground in the "mid-range" computing field

To fulfil the promise of computing, and to meet the demands of users, the computer industry is increasingly turning, however, to a new computing model known as networked computing or client/server computing.

Networked computer systems link all of the computers within a corporation, preserving prior investments in hardware and software and adding new capabilities that greatly expand the scope of information services provided to individuals and to teams of

people who work closely together. In networked computer systems, the personal com-puter on the desktop becomes the window to all of the corporation's computer facilities. To users, it will make virtually no difference where data or applications actually reside.

Through transparent access, via networks and inter-net-works, it will seem as if their own desktop systems are directly connected to corporate file systems, internal and external databases, electronic mailboxes, high performance processors and other facilities. Network computing is creating new categories of computers which do not fit into the terminology of the 1980s. This

new computing paradigm includes two types of comput-ers – "clients" and "servers." Client computers are desktop personal computers, terminals or workstations - the machines that deliver computing resources to individual

Server-computers cover a wider range of hardware types and can be broadly defined as machines that provide services to the networked system. In practice they can be as large as a mainframe computer or as

small as a microcomputer.
In many cases they will be special purpose systems such as printers or data storage

Servers co-ordinate the data traffic on a network and pro-vide distributed services like shared file storage and retrieval and application pro-

Sharing high performance peripherals among many users reduces costs and off-loads tasks that would tie up a desk-

Although existing computers will often play the role of the server on a new networked computing system, several companies have recently introduced computers specifically

computing model.
This intensely competitive field has become the new battleground in the "mid-range" computing field. Going head-to-head are the traditional minicomputer manufacturers such as Digital Equipment, IBM from the 'mid-range main-frame" world, Sun Microsys-tems from its workstation background, and Compaq Comter with i

computers.
All of these companies and more - have over the past year introduced "servers" for

network computing.
In addition, a new generation of specialist server computer companies is emerging. In the forefront of this trend is Netframe, a Silicon Valley company founded by computer industry veteran Carl Amdahl. Netframe offers purpose built servers, which it claims have several advantages over personal computers, minicompu ters or mainframes adapted to

The growth of networked personal computers and work-stations will nearly triple annual sales of servers over the next four years from their current level of about \$4bn to close to \$12bn, according to Forrester Research, a Massa

the role of servers.

chusetts market research firm. mature type of servers. These are systems that enable network users to share data, printers and other peripherals. The

A new generation of specialist server-computer companies is emerging

vast majority of file servers are computers that are adapted to their network management

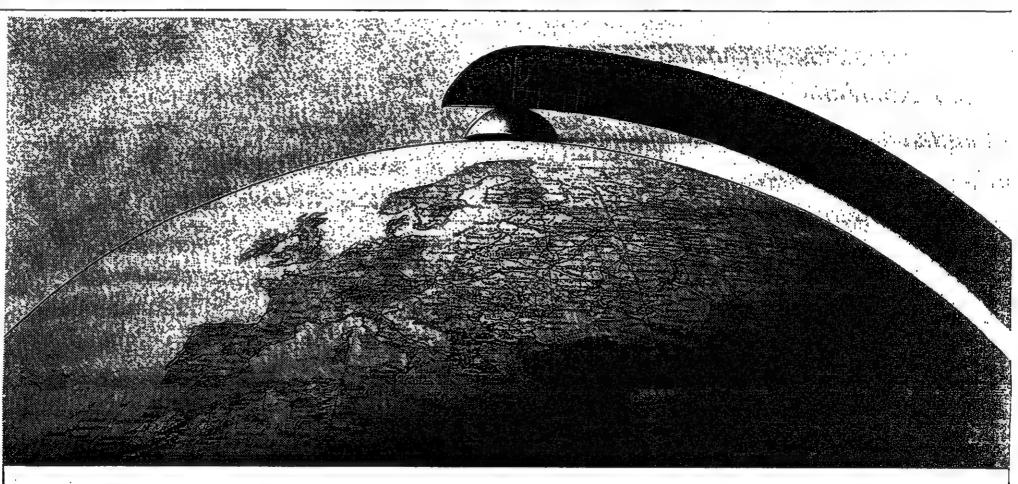
In the future, however, spe-cial purpose file servers such as those offered by Netframe are expected to play an increasingly important role. Application servers repre-

sent an emerging segment of the computer market. These are computers dedicated to a single application such as data-base management, which per-form the "backroom" tasks of the networked computer sys-

Communications servers. which manage the links between computers on a local area network and between local networks and wide area networks represent another important segment.

Client-server computing redefines the roles of a wide range of computer systems and eventually will reshape the computer industry, many

In the short term, it intensifles competition in the tradi-tional "mid-range" computer market sector as industry leaders adapt their products to fit the new computing model.



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Tulep computers The name for European quality. THE last couple of years has

seen a startling change on computer screens. Gone are

the days of the glass type-

writer, where operating a com-puter consisted of mastering

the art of advanced keyboard

manipulation.

Philip Manchester looks at the changing face of computer screens

Windows open on an uncluttered view

In its place is an attractive array of windows and icons which can be manipulated is because some business applications are not necessarily suited to mouse-plus-windows with a mouse pointer - what is known as "the Macintosh GUIs - "there is still a lot of the old camp who do not want interface". If operating a computer is like driving a car, then the Apple Macintosh is the to move on - particularly in the spreadsheet market. It gets equivalent of the automatic in the way of the experienced user. GUIs give you lots of clut-ter on the screen - slider bars, ventilator boxes and so on gearbox. Although not the first computer to feature what has come which take up a lot of valuable

to be called a graphics user interface (GUI), the Apple Macintosh was the first computer to bring the idea (usually attributed to Xerox) to the mass market. It has taken somewhat longer for the GUI to percolate through to the world of commercial business computing. Paul Bailey, managing director can use standard Lotus 1-2-3 of Lotus UK, suggests that this

screen real estate." says Mr Despite this, Lotus has recently launched a "G" version of 1-2-3 which offers a GUI - with or without the mouse pointer, "Just because you are using a CUI does not mean that you need a mouse. You

keystrokes with 1-2-3 G or a mouse - or both together," says Mr Bailey.

Despite some user's desire to keep with the older style inter-face, there is evidence that a change has begun and the GUI is ready to be accepted by business. Microsoft, developer of the Windows GUI for the IBM PC standard, estimates that only 10 per cent of its existing MS/DOS users have bought

Windows so far. But it has seen an upturn in the last year and Microsoft chief executive officer Bill Gates recently said he expects Windows users will be 50 per cent of the MS/DOS base in the next couple of years. It is not just personal computers that

are benefiting from better GUIs. The combined weight of suppliers looking for things to do with the powerful new microprocessor chip technology and the demand for an easier way to use computers has led to a wide agreement about what form the GUI should take.

Although there are variations, that form is essentially the Macintosh interface and it has become so important that it has sparked off a trail of litigation since the mid-1980s. But despite the legal conflict there has been unprecedented co-operation between manufacturers and broad agreement on many aspects of the GUI both externally - how it appears to the user - and internally how it can be used by the programmer to make nice applications. It is about time. The issue of the interface between computers and people has been on the agenda at least since the late 1960s.

It emerged then because it was the first time that a large number of people were exposed to computers. It is to the shame of the professional computer industry that there was little real progress until the first personal computers came along a decade later.
Professionals seemed to be

quite happy to use arcane languages and procedures to oper-ate earlier computers. In the 1980s, however, progress has

been rapid and, once the advantages of the Macintosh were recognised, it gained acceptance and is now firmly entrenched across a complete range of computers.

Apple may argue that its version of the interface is still the best one, but there are per-fectly adequate GUIs for most computers now. The IBM PC standard has Microsoft Windows and Unix systems have a choice of several, including the Open Software Foundation's (OSF) Motif, SCO's Open Look

and Sun's News.
IBM is even extending GUIs to its larger systems - under its policy of providing common user access under its Systems Applications Architecture

an extension to the Macintosh's cut-and-paste. It is a 'live' cut-and-paste which keeps references up to date."

Steve Jobs, the founder of Apple and its former chief executive, has built similar fea-tures into his Next workstation with the Nextstep software. And Microsoft is attempting to apply the same principles to its PC-based Windows software.

There is little doubt that computers are much easier to use as a result of GUIs. It has introduced a set of easy operational concepts - Apple rightly calls them intuitive and has brought consistency across applications. The next important change will be to extend common interfaces into the realm of user-built applications - when it will be hard to tell the difference between Lotus 1-2-3, Wordperfect, dBase and a plethora of other prod-ucts. Products will compete on the functions they can offer rather than on their user interfaces. This is long overdue,

sonal computer performance scale, sales of very powerful

personal computers, which compete with computer work-

stations are growing vigor-

ously as they increasingly

replace minicomputer termi

However, sales of portable, or laptop, computers are boom-ing, with market growth expec-

ted to top 40 per cent this year. Emerging as leaders in the por-table personal computer mar-

ket are Zenith, Toshiba, Compaq, Tandy and NEC - with

growing competition from Sharp. Over the past year, handheld

or pocket computers have also been launched by several man-ufacturers. These tiny comput-ers rely upon the vary latest chip technology to cram all the functions of an IBM-compatible

In the 1990s, personal com-

puters are expected to evolve into notebook-sized devices

with all the functions of today's desktop machines plus

the ability to display video pic

tures, store voice messages and

interpret handwriting.

Personal computers have become the industry's driving force, says Louise Kehoe

Side-show steals the limelight

THE personal computer revolution of the 1980s has been just the opening act of a drama that promises to be equally compelling throughout the 1990s. With world sales of personal computers expected to top \$42bn this year, these desktop and carry-along computers have become the drivng force in the computer

industry.

More than half of all personal computers are now linked on networks, according to market researchers. This trend has significantly changed the role of the personal computer in office com-puter systems, making it an alternative to the traditional minicomputer with terminals. No longer a side-show to the mainstream data processing market, personal computers have become the centre of

Personal computer hardware technology is following two parallel tracks. On the desktop, personal computers are becoming more powerful with the availability of a new genera-tion of 32-bit microprocessors such as Intel's 486 and higher

density memory chips.

Meanwhile, portable personal computers are quickly emulating the full functions of a desktop machine in ever

MOST computer users will find

themselves sitting in front of a

The days of the so-called

'dumb' terminal/central com-

be replaced by a combination of powerful desktop computers,

networks and central database

The recent financial figures

of established suppliers of the

old forms of computing show

only too clearly how times have changed. IBM's main-

frame sales are flat, DEC is

having problems sustaining its growth and Unisys has been forced to change its direction

- including a change of chief executive.

By contrast, companies such

as Sequent, Apollo and Sun

Microsystems have shown where the action is. The work-

station will change the face of

computing beyond recognition

and create an entirely new culture which will be as different

from the old mainframe cul-

ture as current personal com-

puting is. The result should be

greater power to end users and

a move away from the technol-

ogy-intensive systems of the

The major manufacturers

are gearing up to meet the new demands of this technology -

but there are reservations about the cultural changes

which will result. In the open-ing months of 1990, IBM has

fought back strongly with the announcement of its RS/6000 and an upgraded PS/2 - both

aimed squarely at the develop-ing workstation market. DEC, too, has recognised

that it must move towards a

product range which gives users more choice. IBM's

announcements were espe-

cially interesting because they

flew in the face of established IBM policy. The RS/6000, based on IBM's latest version of

reduced instruction set com-

puter (risc) technology, is an archetypal workstation system.

with a number of screens attached to it, but as a set of

powerful local workstations,

connected together by network software to a central database

As much of the processing as

possible is done locally and,

only when data is accessed or

updated is it necessary to talk to the file server. IBM also took

a rare leap forward technologi-

cally with the RS/6000 - offer-

ing a very competitive price/

DEC replied earlier this

month with new workstations

of its own design but they did

not have the raw power that

IBM managed to pack into the RS/6000. Mr Donald Gaubatz,

group manager for workstat-

ions at DEC said that the new

or file server.

performance ratio.

It comes not as a single box

workstation in the next decade.

smaller and lighter form - a development aided by the compression of personal computer functions on to as few as halfa-dozen semiconductor chips.

In the software arena, big changes are under way. Throughout the 1980s, the personal computer market was dominated by Microsoft's DOS operating system. While DOS will undoubtedly remain domi-nant for several more years, it is increasingly challenged by OS/2 the second generation operating system from Microsoft and IBM and by AT&T's

Unix.
OS/2, with its graphical user interface Presentation Manager, represents a significant step forward in personal com-puting. The new operating sys-tem is designed to take full advantage of high performance microprocessors by providing microprocessors by providing multi-tasking capabilities that enable a personal computer to perform several applications simultaneously.

Presentation Manager also brings the ease-of-use features pioneered by Apple Computer on its Macintosh to the rest of the personal computer world. Since the introduction of the years ago, its market impact en limited by a lack of applications software. Fewer

A new workstation culture is emerging

than 50 applications designed to run on OS/2 with Presentation Manager are so far avail-

Meanwhile, "Windows" Microsoft's program that upgrades DOS into a graphical environment with multitasking, is winning increased sup-port. In June, Microsoft is expected to launch a new ver-

Portable personal computers are quickly emulating the full unctions of a desktop machine in ever smaller and lighter form

sion of Windows that will provide users with Macintosh-like features on a standard IBMcompatible personal computer. Unix, traditionally a minicomputer operating system, is now finding its way on to net-worked personal computers and is dominant in the market

for computer workstations.
With the introduction by Apple Computer, Hewlett-Packard and others of graphical

personal computers to consum-ers, schools and businesses have slowed significantly. contender in the personal com-At the high end of the perputer arena.

(SAA). SAA uses a GUI called

Presentation Manager, derived from Microsoft's Windows. But

now that the form of the inter-

face has largely been agreed

across the industry, there are

moves to extend the GUI

beyond its purely operational

role. And Apple, among others, is out in front - "we don't

think you can just bolt on an

interface - it must be crafted

into the operating system," says John Leftwich of Apple UK. "But if you do build it into

the operating system – it brings you other advantages. The new version of the Macin-

tosh system software. - Sys-

tem 7 - gives you a major one - inter-application communi-

cation or IAC," he says. "IAC is

Confusion over software standards is one of several fac-tors that have led to slower growth of personal computer sales over the past year. Also inhibiting growth in the US are general economic conditions and the more mature state of the personal computer market. The markets in Europe and Asia are now growing much faster than in the US and are expected to continue to do so

for several years.

Disappointing performance by Apple Computer and the financial problems of compa-nies such as Kaypro have led to dire warnings of a broad slowdown in the personal computer market by some ana-

However, these predictions must be viewed in the context of a business that has grown at a rate of more than 20 per cent year for the past decade

This year, the personal com-puter market may grow by a mere 10 per cent worldwide, with significantly slower growth in the US market. Slowing growth is sorting out the men from the boys in

the personal computer indus-try. Several secondary players have already disappeared from the scene and more may well follow. However, industry leaders have strengthened their position over the past year. The top five suppliers now account for almost 40 per cent of the world market.

IBM's share of the US personal computer market is stabilising at about 20 per cent after failing precipitously over the past two years, according

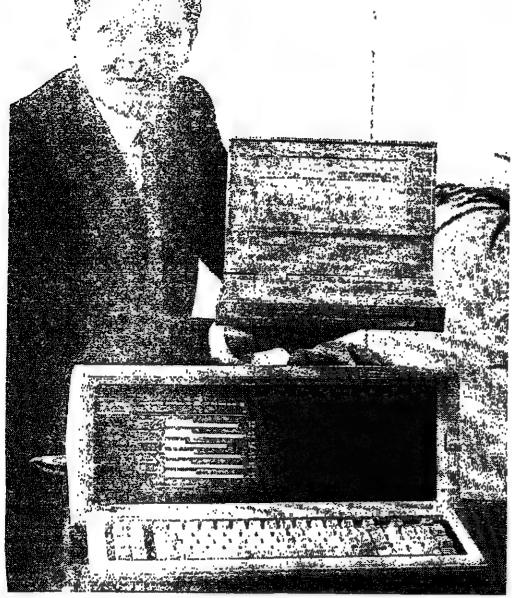
to market researchers. Winning market share are Compaq which now holds about 8 per cent of the US market, up from 6 per cent two years ago, and Apple Com-puter, which holds a 10 per cent portion of the US market, up from 9 per cent, according to International Data-Corporation, a market research group. The business market domi-nates the attention of most US

personal computer manufacturers as sales of "low-end"

The desktop computer. meanwhile, will become more closely linked with corporate computer systems and in a sense less "personal". It will,

however, become increasingly easy to learn to use, and like the personal computer will incorporate multi-media capabilities that allow it to take on the role of a picture-phone or a television set or a fax machine as well as drawing upon network resources to bring the power of a supercomputer to the desktop.

Share of 1989 US personal computer market (\$ sales) 9.8% 7.6% 5.4%



■ Joe McNally, vice-president and UK managing director of Compaq Computer, pictured with the original 28th Compaq Portable (lower model) and the latest Compaq LTE taptop machine. This highlights the dramatic evolution of portable technolopgy in the last five years, driven by users'

requirements for mobile computers, based on Industry standards. The A-4 sized LTE offers full-function personal computing and weighs about 6lbs. Unlike its chunky ancestor, which earned fond comparisons with a sewing machine, it includes a 20Mb or 40Mb fixed disk and a battery to power the system.

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More power for users

products had better graphics than IBM's machines and will fit on a desktop. Analysts, how-ever, were not too impressed with the DEC machinery. The conclusion is that IBM has made a genuine technological leap rather than simply fine

tuning its existing designs.
The DEC computers are based on a risc chip from MIPS Computer Systems which will give 24 million instruction s per second of processing power, the RS/6000, however, runs at up to 34.5 millions of instructions per second. Ten years ago, a mainframe run-ning at 10 million instructions a second was regarded as fast.

The workstation will change the face of computing beyond recognition and create an entirely new

culture for computer users

IBM still sees the RS/6000 selling into a traditional corporate structure, however. It might have distributed the technology, but it recognises that many of its customers will want to keep a leash on users. Whether they will be able to, remains to be seen. But it is not only established manufacturers like IBM and DEC who are homing in on the growing demand for workstation

systems. Personal computer manufacturers such as Compaq and Olivetti have also seen the poten-tial of the market. Both have made significant product announcements in the last six months - Olivetti with its CP486 range and Compaq with

its new range of machines. In both cases, the systems throw down a challenge to existing centralized systems. And, of course, there is a pleth-ora of East Asian companies Mitsubishi, Toshiba, Sony and Matsushita - who also want a

slice of the cake. The wide adoption of stan-dards has provided a static tar-

get for the clever production engineers of Japan to produce workstation boxes to order. But the development of workstations has not occurred in a vacuum. Cultural changes in industry generally have accelerated growth and acceptance of the idea.

During the 1980s, the trend towards decentralised

operations provided the oppor-tunity for many large users to re-assess their computer operations. They found that many applications involved only a small number of people working together. The concept of the 'workgroup' was born and it needed a different kind of computing to support it.

"If you look at the structure of organisation in the traditio-nal data processing department - it reflects the culture of the company - central control, top down hierarchical systems," explains Richard Stone of Olivetti UK.

"This organisational culture is changing and involves more local information and auton-omy," he adds. It also means significant change in the role of the data processing department. Over the last decade, more and more data processing departments have metamorphosised into information centres or information systems departments. They support workstation users in what they want to do, rather than dictating to them as they did previ-

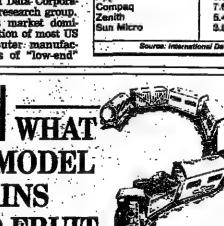
Initially, workgroups were equipped with networks of per-sonal computers or expensive proprietary systems like the Sun Microsystems range. But advances in personal computer technology and the wide accep-tance of software standards such as Unix and the C programming language have created what amounts to a commodity market for workstation products.

Theoretically, this means that purchasers can buy the workstation they prefer from one supplier, the networking software from another and the central database server from

They all conform to standard interfaces and should, therefore, talk to each other. In practice it is more complicated but it is achievable. There still remains a strong role for the central information systems department.
Economies of scale in pur-

chasing, enforcement of standards, systems security and data integrity are just a few reasons for its continued existence. But it must learn to coexist with end users and step back from its traditionally technocratic attitudes.

Philip Manchester







Both are produced by companies with complex stock problems who shared a common solution with Kerridge Business Systems.

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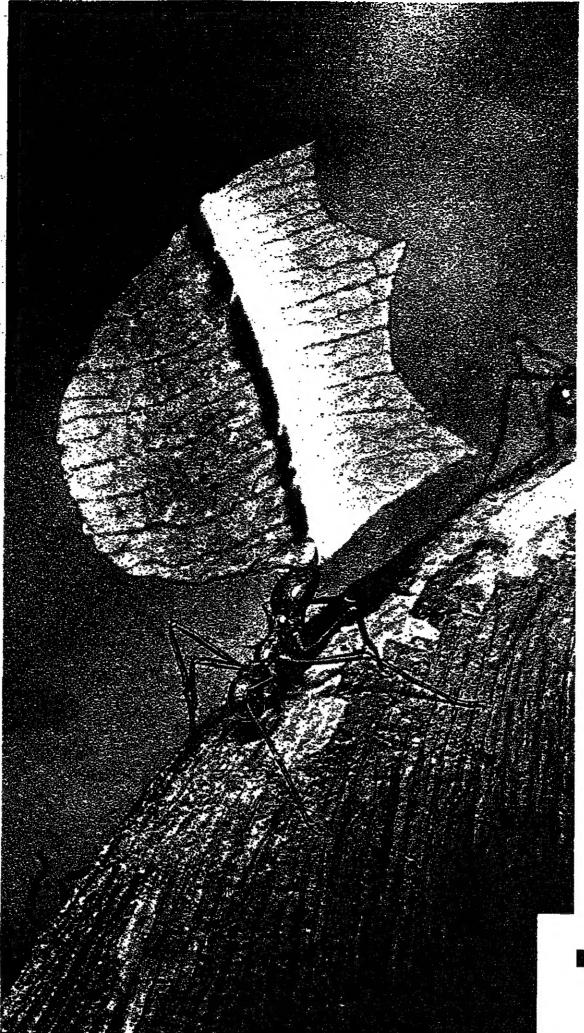
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When soldier ants detect an approaching enemy, they will instantly alert the rest of the colony.

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So near yet so far

For many users, open systems must now be tantalisingly close, yet frustratingly still far away. The whole concept. where computer systems of virtually any make or type can be connected together to create a heterogeneous whole that is greater than the sum of the parts, remains largely that - a

Yet it is now closer to a working reality. Digital Equip-ment Corp (DEC), for example. is already claiming it will be the first supplier to announce conformance to the Open Systems Interconnection (OSI) seven-layer reference model on all its systems before the end of the year. This is up to a year before IBM launches its compliance with the first five layers model in mid-1991.

The OSI model is a key element in moving open systems from concept to reality. The seven layers set out spe-

cific standards that cover all aspects of interconnecting different computers together, from the physical attachment of communications lines, via the protocols used to communi-cate information between tion of data, and the way in which different applications

The concept is now closer to a working reality, says MARTIN BANKS

and common services link together on a practical net-

In conjunction with this question of linkage, however, comes the question of using common software applications on different systems. Much of tue discussion in this area has been conveniently shortened to one word - Unix - but it is proving to be not the open systems panacea some have

The Unix operating system has been the focus for much attention in the open systems debate over the last two years. This is the result of the very public schism between the sup-pliers that sided with AT&T. the owners of the originators of the Unix system, Bell Laboratories, which formed the Unix international group, and those that felt ostracised by that group and consequently formed the rival Open Systems Foundation.

The major trouble with Unix as a standard for open systems is that there is no one standard While the rivalry between Unix International and Open Systems Foundation may bring the choice down to two, the goal of a single operating system under which wide-ranging applications and data portabil-ity can be achieved is still

There are those who contend such a goal is missing the point of open systems standardisation. DEC, for example, suggests that, while Unix is an important operating system, it is not the only one. MS-DOS and OS/2 on desktop

workstations will still be prevalent into the next century. DEC's own proprietary operat-ing system, VMS, will still be used for both workstations and servers. And IBM's own proprietary operating systems, such as VM, will be found on many back-end database engines in the larger networks.

Practical open systems, therefore, will be about the ability to create heterogeneous

networks that can accommodate and utilise all or any of these mainstream systems. The most important factor will be the protection of the user's existing investment in hardware, applications and data.

The bulk of the standardisa-

tion for open systems has been agreed - at least in principle and most manufacturers and suppliers have made various forms of public commit-ment to them. Now, however, users are starting to confront the practical problems of implementing workable solumuch on a supplier's engineer-ing skills as on adherence to accepted standards.

This leads to the possibility

that the most appropriate companies to engineer open systems solutions may not be the companies that have set the open systems standards.

According to Harvey Parr, managing director of systems integrators, ACT Logsys in Hemel Hempstead, this may come about because the imposition of standards brings some inevitable trends. Hardware, for example, is now a commod-

The choice available to users is quite restricted already: various forms of IBM's PC-compatible system, the Apple Macin-tosh, IBM's RISC machines, DEC Vaxes, HP workstations and servers, systems based on the Motorola processor family and hardware from Sun Micro-

systems and MIPS Computers. The number of processor suppliers is smaller and even more commodity-oriented: Intel. Motorola, Sun Sparc and MIPS predominate. And now both Intel and Motorola, leaders in the chip producing business, are moving strongly into the manufacture of workstat-ions for the OEM market.

In operating systems, Unix, MS-DOS and OS/2 are pushing the commodity concept even further, despite the fact that there are still too many differ-ent versions of Unix available.

This problem is most likely to be solved by the likes of Intel and Motorola, both with Application Binary Interface versions of Unix available for their processor families. This should give Unix machines based on those processors the same applications portability as now taken for granted on

PCs with MS-DOS. modity trend in applications software, with an increasing number of users creating tailored applications based on likes of Oracle. Ingres and Informix.

This trend towards commodity products, according to Parr, means that open systems companies will tend to polarise, focusing on either providing the base technology - the commodity items that meet the open systems standards, or on the application of technology for users' specific needs.

So as open systems start to move from the standards com-mittee rooms out in to the real world, the argument has begun to shift to which companies might be the best bet for successful implementation.

According to DEC, the evidence points to those with both sound engineering capabilities and substantial financial resources. This is because the level of investment being both made and protected by users is such that they will demand assurances that an open systems supplier will still be around in ten years time.

Advances in printer technology

Era of the desktop laser

TEN YEARS ago, the market for daisywheel printers was booming. Today, it is virtually

Although growth is slowing down for dot matrix printers, they continue to sell well for the time being, but the rising star is the desktop laser

Before the laser printer arrived on the scene, the daisy-wheel printer had the edge over dot matrix in terms of quality for business correspondence.

However, the daisywheel is relatively slow and it was not uncommon for business users to buy one of each. Now they only need to buy one laser

In the area of impact printers, the consumer report, "What to Buy for Business" has a new survey of nearly 200 dot matrix and dalsywheel printers from 24 manufacturers
- "with so much choice,it's easy
to lose sight of the features
that matter most," it says.
There is a guide to "best buys."

plus others rated as "good value," and "worth a look."

Today's best-selling laser printers incorporate Canon's print engine. However, Canon is reluctant to enter the market itself with any force for fear of upsetting its established customer base of original equipment manufacturers (OEMs), according to Dataqu-

As the undisputed industry leader, Hewlett Packard has become the acknowledged lowend trendsetter as well.

The IIP is the first laser printer sold for under \$1,000. More importantly, it has been positioned as a personal The total value of the Euro-

pean printer market from 1989 to 1993 is forecast at around \$37.8bn, with Germany leading at \$9bn, followed by France with \$7.7bn, and the UK with Old fashioned typewriter

ribbon-type printers - called impact line solid character

printers - are now largely a replacement business, and are in gradual decline.

In the case of high-speed non-impact page printing systems with speeds greater than 100 pages per minute (ppm), there are only a few suppliers of these large and costly systems, and the market

is not likely to increase.

Medium-speed page printers operating at 20 to 100 ppm will take their place, and this is one of the major growth sectors in the printer business.

Low-speed page printers, or desktop lasers, have almost wholly replaced solid font "let-ter quality" serial impact printers, while also restraining the previously almost untrammel-led growth of serial matrix

products.
They are increasingly becoming the printer of choice in local area networks. Non-impact serial correspon-dence quality printers such as thermal transfer and ink jet

never quite lived up to their early promise. Ink jet is only now really gathering momentum, largely on its ability to produce colour

graphics output.

Desktop lasers show the

most growth potential. The 6 to 8 ppm band is the dominant one at present with more than 80 per cent of unit shipments and two-thirds by

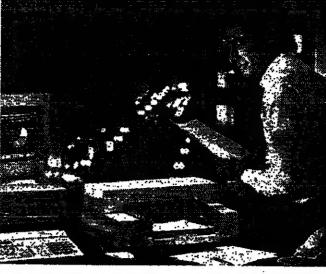
It will retain its leadalthough newer devices, first in the 10 to 12 ppm speed range, and later the 15 to 20 ppm range, will steadily increase their share, says Frost and Sullivan. The European market for

desktop lasers, worth about \$750m in 1987 for around half a million units, is forecast to grow two and a half times by 1993, with a quadrupling of unit shipments.

Desktop publishing has given the desktop laser printer market a boost but has also added substantially to the cost content, particularly in the



Epson dominate the dot matrix printer market: pictured here is the company's compact LX850 model



The HP Deskjet printer from Hewlett-Packard also I'll me bessjet primate from Herneu-Lamburgers it produces itser-quality corre spondence, internal reports and letters with 300 dots-per- inch resolution for text and graphics

case of Adobe's PostScript page description language which enjoys a virtual monopoly for serious page design work requiring a range of fonts.

Most licence Adobe and this is expensive — "although it cost us six months out of the

market, we developed our own Adobe-compatible font families in Japan," says John Carter, general manager of Brother's office equipment division.

The Brother HL-4 prints four pages a minute and retails at around £1,400. The HL-8 doubles the speed, but costs more than 40 per cent more. But the PostScript-compatible HL-8PS retails at around £3,500.

"Our own versions of Times and Helvetica are similar in appearance, but because we veloped them ourselves we have saved ourselves a lot of money on licence fees," adds

"We also supply a slot-in PC board from a US company called QS which provides true Adobe PostScipt compatibility," he adds.
"PostScript is usually slow

and some documents take half an hour to come out if there are lots of graphics, but this board speeds it up by about 20 "People such as Linotype get very protective about their

typefaces. Fonts have been very expensive up to now, typi-cally £195 per font end-user price.
"Meanwhile, the prices of

laser printers are falling below £1,000 on the High Street for a four page a minute printer like the HL-1, and soon there will be two page a minute printers which will drive prices down Hewlett Packard is now

even further. determined to catch up with description language, PCL Level 5. which will provide

scalable forts.
"I think PostScript will come
down in price," says Phil Goodman, business manager at
printer and peripherals distributor Rapid Recall.

Putting PostScript into a laser printer is the most effi-cient way to optimise performance. A lower-cost alternative is to load in fonts off diskette into the computer's main memory, but this can be much slower, and so is only suitable for low volumes.

"The problem is that with any software package, a lot of research and development spending has to go in," he

"I think a lot of printer man-ufacturers resent the licence fees that are currently being demanded by Adobe. Whether Adobe is strong enough at the moment to hold them all off, I

do not know.

"The thing is that PostScript
works. It is a de facto standard
which a lot of people have

adopted.
*We have all got used to there being so much cheap PC software available that the expectation is that this too ought to be cheap. But there is an awful lot of programming code and intelligence which has gone into it, and somebody has to pay for it.

To come into a market from nothing and win, you really have to have a strong prod-

"What to Buy for Business,"
11. Kings Road, London SW3
4RP (Tel.01.730.0403).
** Dataquest Research News-

letter, November 1989: "Laser Printers: what drives these

Boris Sedacca

Six computer-makers are

expected in June.
While it is relatively easy to establish standards in new sectors of the computer industry, the process is proving to be far more complex in longer estab-

lished segments such as mini-

from competitors in the past, and upon which their busi-

for whom open systems repr sent a big competitive chal-lenge. These companies in the past have used the proprietary

A standard solution is elusive

THE computer industry is nature of their technology to struggling to create common standards that will enable dif-ferent types and brands of computers to share data and software and resolve the Tower of Babel atmospherein the computer world.

The need for industry-wide standards is widely recognised. Observers believe the estab-lishment of de facto software and hardware standards allowed the personal computer market to flourish over the past decade and become the largest product sector in the industry with annual sales of more than \$40bn.

The main advantage of per-sonal computer standards was that they spawned a wealth of applications programs. Soft-ware designed to run on IBM's personal computers could also run on those manufactured by IBM's competitors.

For computer buyers, this has meant that "shrink-wrapped" off-the-shelf applications programs have been widely available for personal computers. For software devel-opers, the large base of poten-tial users has created an incentive to create more programs which in turn sell more computers.

To recreate this phenomenon, Sun Microsystems is attempting to establish a simi-lar set of *de facto* hardware and software standards in the market for computer workstations.

LOUISE KEHOE on the struggle to resolve the Tower of Babel atmosphere in the industry

Sun bases its "open systems" approach on its SPARC microprocessor, which it has licensed to several chip-makers, and on the widely used AT&T UNIX operating system. Sun positively welcomes other computer manufacturers to 'clone" its workstations. However, only a few other

manufacturers have taken Sun up on its bid to create workstation standards. LSI Logic, one of the chip-makers license by Sun to produce the SPARC microprocessor, is, however, trying to accelerate the trend with its recent introduction of a set of chips designed for Sun

The "chip set", called the SparKIT, could spark a proliferation of inexpensive workstations much as earlier chip sets helped computer makers to clone IBM's personal com-puters in the mid-1980s, many believe.

designing the SparKIT chip set into future computers, LSI says. The first Sun clones are

computers and mainframes.

Despite the logic of standardisation, it goes against the
grain for the leading computer
manufacturers to abandon the
proprietary software and hardware that has set them apart

This is especially true of the industry's strongest players — IBM and Digital Equipment —

protect their customer bases from would-be intruders.

The extent to which these industry leaders have embraced the "open systems" trend is therefore significant. Both Digital Equipment and IBM have recently introduced powerful workstations with the UNIX operating system. Digital Equipment has gone so far as to assert that it intends to be the leading supplier of open systems in the 1990s. Similarly, Hewlett-Packard, the third largest US computer manufactures is a leading repropert of turer, is a leading proponent of

open systems.

This trio, joined by their European and Asian counterparts, are, however, determined to shape the standards

mined to snape the standards upon which "open systems" are to be based.

This has led to an industry-wide battle over the definition of standards – in particular the establishment of a "standard" form of the AT&T UNIX

operating system.

Hardware standards are not even a possibility in the mainframe, minicomputer and workstation segments on the computer market. This makes the role of software, in the form of operating systems and programs designed to smooth over the differences between different types of processors,

all the more important.

Dozens of different varieties of UNIX are used on different types of computers. To resolve the problem, AT&T set out to develop a single "unified" ver-sion of UNIX.

Instead of drawing the industry together, however, AT&T's plan caused an industry-wide schism between those who joined with AT&T on the understanding that they would become involved in the development of a "standard" version of UNIX, and those who rejected AT&T's plan.

The later group, including IBM, Digital and Hewlett-Packard, formed the Open Software Foundation and announced plans to develop their own, rival version of UNIX.

Last autumn, AT&T intro-duced its "unified UNIX" and demonstrated the operating system running on more than a dozen different types of computers. In a move aimed at mending the industry—rift, AT&T also proposed selling equity stakes in its UNIX Software Operation to other computer companies.

Recently, however, negotiations concerning the future and other technical standards issues broke down and the two industry groups are now dead-locked. It appears unlikely, therefore, that a single "stan-dard" version of the critical UNIX operating system will nerge soon.

Personal computer hardware standards were split by IBM's introduction, three years ago of its PS/2 range of personal computers with a proprietary bus architecture called "Micro-channel". In response, IBM competitors designed an alter-native architecture which they have called Extended Industry Standard Architecture.

Similarly, personal computer software standards are in a state of flux since the introduction by Microsoft of OS/2, an operating system designed to take full advantage of the advanced features of the latest

microprocessors.
Ultimately, computer buyers will decide the outcome of the industry's standards battles by voting with their purchases.

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Data storage and re-writeable optical disks Significant breakthrough

Optical disk technology has come a long way since it was first introduced into a sceptical market a decade ago. During the 1980s the technology stimu-lated new markets in hi-fi, with the compact disk, and in computing, where it is increasingly used for storing high-volume

video and document images. Optical disks have two great advantages over the magnetic devices which have dominated computer storage for more than 30 years: first, they are rugged and stable, offering the prospect of long-term, errorfree and portable storage; second, they are capable of stor-ing a vast amount of information. While some high-density magnetic floppy disks hold an impressive one megabtye of data, a similarly sized optical disk usually holds 600 times

this amount.
The computer industry has been quick to see the advan-tages of optical disk technology. Optical disks known as CD-roms (compact disk readonly memory) are used to dis-tribute books, catalogues, and large databases in a pre-recorded form. Other disks, known as worms (write-once read many), are distributed "blank" and are then filled by the user. By 1993, according to market researchers Frost & Sullivan, the combined European market for optical disk drives and the optical media will reach \$900m, up from just

\$37m three years ago. The take-up of optical technology to date, however, has been hampered by two critical technical limitations: until recently, it has not been possible to erase or change information on the disk; and data retrieval is, by magnetic stan-dards, extremely slow, making the optical disk almost useless for fast, on-line applications where the information is

needed quickly.

A third limitation is cost.

Some suppliers are hoping to

persuade users to replace their

slow and unwieldy tape drives,

used for disk back-up and

long-term archiving, with opti-cal disk drives. So far, how-

ever, tape remains much cheaper, and the introduction of digital audio tape (DAT) is making it even more cost effec-The problem of slow retriev-

al-speeds appears to remain intractable. Using today's tech-nology, optical disks will always take at least twice as long to retrieve data as mag-netic disks. This may not sound a lot, but time delays in collecting data can be dramat-ically amplified when computers are running complex applications or support large numbers of people at their ter-

This limitation has effectively put a cap on the size of the optical market: "At one time, people thought optical technology could replace

Solving the problem of "rewriteability" has long been a holy grail of the optical disk developers, says ANDREW LAWRENCE

everything. Now it is clear that optical disks are not a direct replacement for magnetic disks or tapes," said Mr. Peter Green, marketing director for computer peripherals at Hewlett

Hewlett Packard, like most

major computer manufactur-ers, believes optical storage

has its place between high speed but potentially unstable magnetic disks and slow, but reliable, magnetic tape.

It now appears that the most promising market for optical disks will be where the user needs access to large amounts of high-density information, but does not require it within seconds. The most obvious example is document image processing (DIP). A DIP system can be used to store and man-

age hundreds of thousands of

facsimile copies of documents.

Because the facsimile image

takes up so much storage

memory, optical disks are a

prerequisite.

Solving the problem of "rewriteability" has long been a holy grail of the optical disk developers and offers suppliers their best hope of opening up the optical disk market. For archiving purposes and for applications where a strict audit trail is required, it is use-ful to have a computer record which cannot be changed, but for most users the lack of rewriteability imposes unacceptable limitations on the way

they use computers. By combining optical technology with magnetic methods, companies such as Sony, Ricoh, Maxtor, Panasonic and Canon at last feel confident enough to offer re-writeable high-volume storage products By the middle of this year, at least 20 companies will be either manufacturing or distributing re-writeable mag-neto-optical disks. The re-writeable optical disk

has caused much excitement, with some analysts predicting that the young market for write-once devices will be quickly eclipsed. Mr Richard Todd, product manager for storage devices at Panasonic. predicts that erasable devices are going to find markets wherever there is a need to store large amounts of transient data. He cites an example where an estate agent might want to keep resource hungry digitised photographs of a property on disk for a few months before destroying the data. More commonly, erasable optical disks could be used for temporarily backing up large numbers of faster magnetic

Despite the breakthrough, the re-writeable optical disk still has some way to go. Mr John Dring, marketing manager for the Philips Megadoc product, says the re-writeable optical disk is destined to be a niche market product, albeit "a large niche", because of the various technical limitations. He believes it will take "part of the tape market, part of the write-once optical market, and part of the magnetic market". Apart from the slow Panasonic and others that their disks can be updated up to 10m times suggest that this will not be a serious limitation, Continued on facing page

optical devices, Dring believes the durability of erasable opti-cal disks has yet to be proven. Erasable disks have a finite life

because the technology involves changing the surface of the disk, he says: "You are melting holes and repairing holes its a physical thing."

However, claims by Sony,

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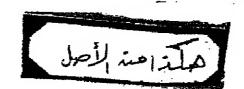
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MAINTENANCE has two meanings in the computer business. Among software specialists, it means keeping old programs up to scratch and adding new functionality.

in the hardware world, it means keeping the machines up and running - and a new and increasingly important source of revenue for comput-

ing services companies. Even today, when central processors rarely fail, when systems have duplicate parts for fault tolerance and broken parts can be diagnosed over the telephone, there is a strong and growing need for maintenance - especially with the advent of multivendor sites.

According to Frost & Sullivan, the marketing consultancy, the European market for third party maintenance is set to rise 54 per cent in the next

Third party maintenance (TPM) companies service machinery which is not of

Advances in optical disks

Continued from previous page

A more serious problem is that the magneto-optical devices

now available share some of

the instability problems associ-

ated with magnetic disks, mak-

ing them unsuitable for critical

Later this year both Philips and Panasonic are launching

re-writeable optical drives that

use no magnetic technology at all. Unlike the optical drives,

these will soon be able to read

the write-once disks already on

while these may eventually prove to be both faster and

more stable than magneto-op-tic disks, it will not be possible

As ever, there is a trade-off:

the market.

100

Big demand for third party maintenance

A healthy market

European market leader in

third party maintenance, with sales in 1988 of \$231m, forecast

to rise to \$323m in 1993. The French were in second place

den was in t sales of \$51m.

was in third place with

The UK is also the most vol-

atile market for third party

maintenance with a group of

small companies jockeying for position behind the market

leader, Granada Computer Ser-

ated a spate of acquisitions and

hardware in their care may be made by their competitors. The health of the market reflects customers' desire for "one stop maintenance shopping with a single maintenance team and a single contract for all their equipment.

In 1988, according to Frost & Sullivan, the European market for was worth about \$599m; by 1993, it is expected to grow to

Manufacturing industries are

the largest consumer of TPM services followed by banking and retailing Government and defence is

the fastest growing sector of the market as cost constraints

compared to \$599million in 1988

to rewrite the disks more than

1m times - one tenth the

number of rewrites possible

using magnetic technology.

Many users, and especially

those using departmental or stand alone desktop comput-

ers, will not notice or be con-

cerned with the limitations on

speed, durability or erasability. The advantages of higher

enough to make an investment worthwhile.

two world leaders in document image processing, have already announced their intention to

support re-writeable optical

drives in their products within

Wang and Olivetti Filenet,

mergers. Among the more interesting is Ferrari Holdings, backed by the merchant bank Singer & Friedlander, which has identified third party main-tenance as a key element in its European third party maintenance market

growth strategy.
Singer & Friedlander also has a stake in Apricot Computers of Birmingham which ear-lier this month sold its hardware manufacturing division to Mitsubishi Electric of Japan for £39m, leaving it free to concentrate on computer software

The turning point for Apri-cot was its acquisition last year of Information Technology (FTL), formerly Computer Technology and the UK's oldest minicomputer manufac-turer. The hidden value in the ITL acquisition, however, was the company's well established and profitable maintenance

As part of the deal with Mit-subishi, Apricot will retains the right to service Apricot computers for a minimum of three years.

The European market leader, Granada Computer Services (GCS), achieved its position through an aggressive acquisition strategy. It is one of the principal arms of the Granada group with service centres in the US, the UK, Ireland, and throughout mainland Europe. It claims a 20 per cent share of the European market, four times that of its nearest com-

According to Mr Conor Kehoe, GCS chairman, investment in the company now tons \$250m. The company's acquisitions on its way up include Computer Field Maintenance, DPCE and Mainstay, all well

companies have to be large. The investment needed to stay at the leading edge of the technology is increasing, while profits margins are steadily narrowing. Companies had to operate on an international

scale to grow profitably.

His views are backed up by Frost & Sullivan which point out that computers manufacturers (who see maintenance as an important route to increasing their own revenues and are concerned about the possibility of losing business to independent third party maintenance companies) are setting

the pace these days. They are offering extended warranties, lowering maintenance charges and in some case entering the TPM market themselves by offering to ser-vice their competitor's equip-

An excellent example is Olivetti of Italy which is steadily



Mr Conor Kehoe, chairman of Granada Computer Services: the company achieved its leader, through an aggressive acquisition strategy.

growing its TPM business across Europe. Granada, Oli-Mr Kehoe argues that as TPM companies become increasingly international, a new set of international products will emerge. He gives as an example of the necessary marketing approach the requirements of a company like British Airways. It needs high "uptime" on its

vetti and Sorbus together account for about 40 per cent of the European TPM market

ferent manufacturers. While its maintenance requirements are broadly similar to other companies with a comparable mixture of equipment, it has spe-cific needs which have to be

mixture of machines from dif-

The answer, Mr Kehoe says is a maintenance team onsite with adequate spares and a commitment to cover all the machinery on site. The skills needed, ther working pattern and the target up time all have to be agreed with the cus-

Like most other areas of the computer business, however, a likely constraint on TPM in future is likely to be the short-age of skilled engineers. Computers, in the form of expert systems, may make it possible for less skilled engineers to carry out sophisticated repairs.

New markets: the introduction of machines using the 80486 processor takes the microcompute Alan Cane



into new markets. Pictured here is a Hard Disc Vision broadcast graphics system on Research Machines' YX-486. It creates video images and controls editing functions.

Dealers and distributors face complex problems

Squeeze on profits

THE PEOPLE who actually sell computers, be they dealers, dis-tributors, value-added resellers (VARs) or a combination of all of those, are facing a range of interlocking problems and

challenges. High interest rates and a reduction in consumer spending are combining to squeeze profit margins, while at the same time the industry is going through a series of radi-cal structural changes. The approach of the single Euro-pean market is, if anything, accentuating these difficulties.

The smaller computer dealership, to the extent that it still exists, is at the sharp end of these developments. High street glass frontage has been unfashionable since the mid-80s, when a number of high profile chain stores came and went, and those dealers with high street, or perhaps even overtly retail premises, face a combination of high after-sales service requirements and lower

profit margins. These two are perhaps inevitable on the high street: if you are selling single units to individual customers you must expect to have to educate your customers as you sell, and that necessity erodes profit marcompany is selling fewer computers, it will anyway command lower margins from suppliers. Add a competitor a

interest rates, and you have a price war, together with an inability to fund expansion (or, in many cases at the moment, to fund borrowing).

There are several routes out of this cul-de-sac. The most decried is 'box-shifter' status, where a dealer relies on high volume to cancel out low margin. Move enough machines, goes the theory, and you can keep price low while still making money, even on a low mar-

Two other broad selling methods can be identified. The Computerland franchising chain was founded in the US as a 'glass frontage' operation, but has been structured rather differently in the UK for historic reasons

Computer Group, a Manchester-based company that accounts for a substantial proportion of Computerland's out-lets, has minimised high street frontage while increasing the amount it spends on service, support and education.

The formula allows the dealer (or reseller, to use the vogue word) to command higher prices, and to sell extras on top of the basic equipment. Paradoxically, this approach appears to attract the more educated - and prosperous customer.

The other selling method is

rather more than just a flash in the pan. Companies like sland fall into this category.

While the dealer-distributor is taking supplies direct from the manufacturer, and pitching for the corporate customer -thus taking itself into the higher echelons of the market - it is often, like the box-shifter, heavily reliant on high volume. It gets a better margin from the manufacturer because of high volume, while its customers get a better margin from it, because of high vol-

Distributor P&P's purchase of

It can, however, compensate for the inevitable squeeze on margins by selling added services, such as training, and by reduced sales costs (because once you have an account, the corporate customer will automatically come to you for more equipment until the account

comes up for tender again). Those who say that this is the future of the computer trade postulate a world where there are around half a dozen major dealer chains in the country selling to the blue chip accounts, and selling more than half of all computer equipment, with the rest of the market being served by a large number of dealers, themselves serviced by distributors, just

challenged by the two largest distributors in the US. Softsel and Ingram Micro D - both of whom are building European operations - and by the Ger-man company, Computer 2000, which since its link-up with UK distributor, Frontline, has established itself as the largest trade-only distributor in

One of the major issues for 1990 is the extent to which Europe is influencing plans prompting the formation of large power blocks in both the dealer-distributor and trade-

only distributor sectors.

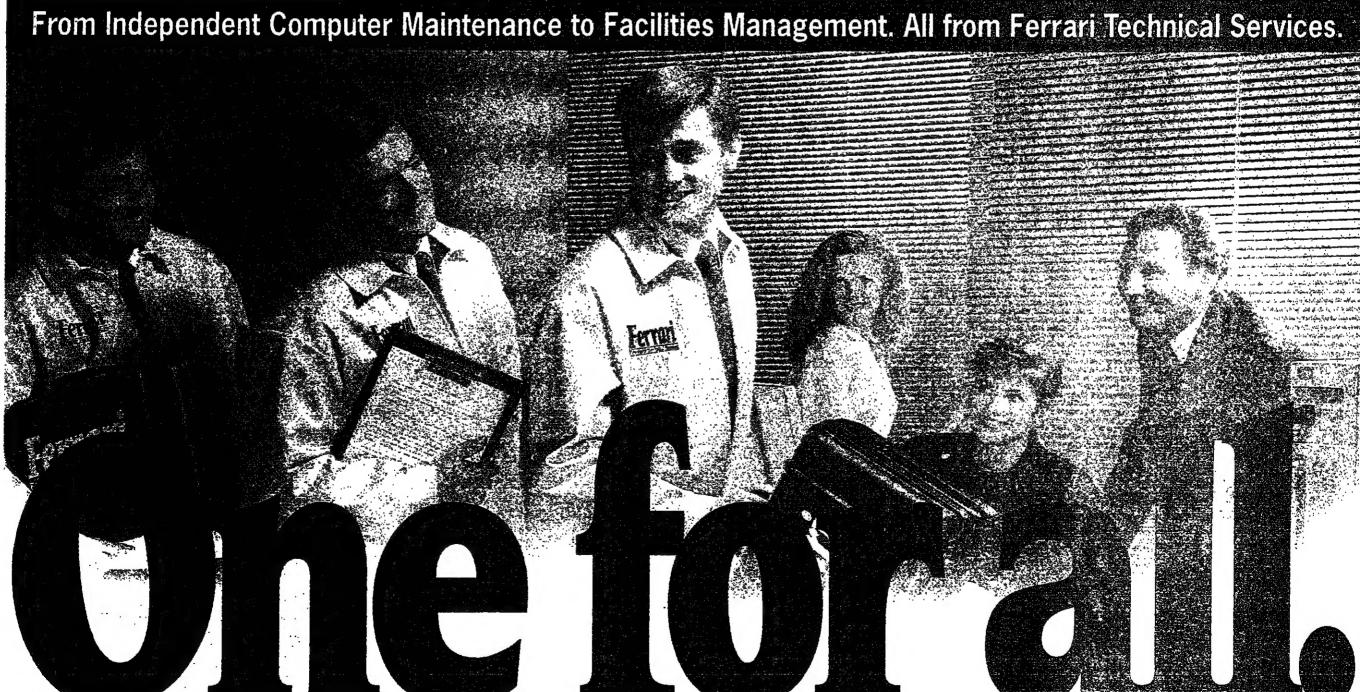
Computacenter last Novem ber was one of the first dealers to produce a European initia-tive, linking with German dealer CompuNet and French Groupe Random to form the International Computer Group (ICG), a Paris-based joint venture company.

The companies involved in Comec (Computer European Circle) plan to set up working parties to work out ways to co-operate in personnel exchanges, communications, and the development of common product strategies.

These groups, or groups like them which will eventually establish themselves across Europe, will present a serious threat to smaller dealers who do not have a similar kind of buying power.
That is where pan-European

distribution comes in Softsel is the company that has been working towards this for longest, although early teething troubles mean that it does not actually have a large head

Continued on next page



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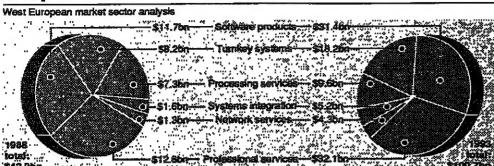
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SUPERGRAPHICS WORKSTATION: university software development is being iemonstrated here on an IBM Risk System/ 6000 POWERstation 730. This computer, one of a series of four, has high-function 3-D graphics and relies on an a new generation of reduced instruction set computer (RISC)

technology. This IBM-invented architecture called Performance Optimisation with Enhanced Power (POWER), separates the processor into three independent functional units that permit concurrent execution of multiple instructions.

Computer software and services



Philip Manchester on the user as programmer

A new software role for users

For the last 20 years, the computer industry has searched for ways to build software quickly and economi-

the use of technology and management techniques to improve the quality and quantity of software by professional pro-grammers. But with new techniques such as software engineering and object-oriented design, the emphasis has shifted towards greater involvement by end-users.

There has been a succession of take claims of taken and the claims of taken the succession of taken the succession

of false claims of 'productivity breakthroughs' on the back of technology fixes - including better programming languages, automated tools to generate programs and system design

Although only a partial suc-cess, these advances have helped to change the percep-tion of the software production process to one more in line with traditional engineering. The result – software engineering - provides a better understanding of how com-puter systems are constructed, how they evolve and how this

evolution can be controlled. But software as engineering changes other things, too. It allows computer systems to be built from 'off-the-shelf' softto bring more power to end users of computers. Although there has been a parallel effort to find ways of transferring programming power to users, attention has been focussed on tools, methodologies and project control for the profession-

But the shift from traditional, centralised computing to networks of personal com-puters and workstations, com-bined with software engineering, has raised serious questions about the role of professional programmers.

Networks distribute much more computer power to end-users, change the shape of applications and, consequently, the way they are built. The role of the professional pro-grammer must change to meet

the new demands.
"During the 1980s there was a massive move towards decentralisation - both in corporate terms and in information systems terms," says Roger Wolfe, a consultant with Butler Cox. Mr Wolfe has studied the database of projects built up from Butler Cox's Productivity Enhancement Programme (PEP) which includes many major software development projects carried out by the

world's largest companies. "We waited until we had a

jects. We looked at areas which were of the greatest significance to PEP members and dis-covered that the role of infor-mation systems (IS) departments is changing. One important change is that IS managers recognise that they must allow users to do their own thing," Mr Wolfe notes.

It has been recognised since the early days of computing that the best way to make scarce programming resources more productive is to move the onus of application 'programming ' to the user.

End-users know about their business and want useful tools which will help them achieve their goals more effectively. It makes sense to provide them with the tools to solve their own problems – rather than t ry to solve the problem for them. The computer industry has produced a succession of technology 'fixes' to try and achieve this.

The first wave of 'user aids' were called 'Report Writer' languages. They allowed users to perform some elementary programming to produce output formatted to their own specifi-cations. IBM's RPG (Report Program Generator) is an example. Report writer languages were followed by a number of variations which



of programming to users. But they all suffered from a similar problem. If they were powerful enough to do all that users wanted of them, they were difficult to learn and use. If they were easy to use, they were too

In the 1980s, personal com-puters acted as a strong stimulus for more powerful ways of manipulating data. The ever-inventive software industry inventive software industry has provided users with the tools to create their own solutions to problems. The spreadsheet program is a classic example. Lotus 1-2-3, the most-famous spreadsheet is a highly-specialised programming language, in addition to its obvious role as a spreadsheet calculator.

Advanced spreadsheets such as Microsoft Excel, Informix Wingz and later versions of Lotus 1-2-3 can be used for highly-complex applications across network which involve many users. But they can still be used for small-scale, desktop applications set up by individ-uals for their own use.

This form of bringing power to the user is likely to be techniques under the umbrella of object-oriented design and programming. Ploneered by Keror and Apple in the 1980s, this approach sits very easily with the concepts of software ers systems as a set of interacting, self-contained objects

ferent ways.

Bill Atkinson, the designer of the Hypercard object-oriented system packaged with Apple's Macintosh, compares it to Meccano or a software erec-tor's set. Programs like Micro-soft Excel already include many features drawn from the object-oriented approach and it is also working with Hewlett

Profit squeeze

Continued from previous page: The second of the large US distributors, Ingram Micro D. was spoken of as a possible partner for Frontiine, but is now back to looking. Chairman Chip Lacey talks hopefully of building its main European presence, Brussels-based Ingramsoft, to achieve a \$500 million turnover by 1995.

turnover by 1995.

Despite recent consolidations, Lacey still feels he has plenty of time to get into Europe, and does not see a shortage of companies to buy

"virtually every distributor in the world is on sale right now, for the right price," he

There are however alternatives to consolidation, and these can relate to the way the technology itself is moving. Value-added reseller (VAR) is currently a buzz expression, and although there is nothing essentially new about a reseller commanding higher margins by employing its special expertise on a piece of hardware or software, the increasing power and complex.

hardware or software, the increasing power and complexity of the equipment, and the increasingly interchangeable nature of microcomputers and minicomputers, mean that value added services are increasingly required by customars.

The problem with this sector, of course, is that the saleability of products is related to

bility of products is related to
the amount of expertise a company has over and above the
main body of the market.

The market itself is on the
technological treadmill, and
therefore a VAR needs to make
continuing investment in its
own knowledge base if it is to
avoid being reduced to just
another small dealer.

As a survival route, however, it has rather more attractions than simply remaining a
small, non-specialist dealer.
That role has had scant appeal
in the past few years, and
there is no indication that the
conditions will get any better
in the decade ahead.

M A SOFTWARE training system, developed by AEG Olympia - part of the £24bn Daimler Benz group — is Computer?" show at the National Exhibition Centre eer Birmingham (April

24-27). The new system is designed to help corporate users give comprehensive training to small and large personal computers, research

only a fraction of the PC's capabilities, says AEG.

Pictured here is the new 386-based model 80 persons er from AEG computer from Azu Olympia's expanding range.

es do not get the best

Packard on New Wave, a much more general object-oriented system. Other software suppliers have also taken note. Mike Baggott, of Canadian software supplier Cognos, sees the next major breakthrough coming from object-oriented techniques hitting the traditional

data processing department.

"It has not permeated through to development departments yet — partly because it much more difficult to do it in a multi-user system," says Mr Baggott. "But it is starting to happen. The work we are doing with Ingres and Ashton Tate on Interbase is aimed in this direction. It is not exactly an object-oriented database – but it does embody

similar concepts."
Mr Wolfe of Butler Cox warns that power must be dis-tributed to users under the control of IS departments: "We have noticed that the swing to distributed computing has started to move the other way-as the problems of uncontrol-led use of PCs have become evident. But IS managers can see that they must permit autonomous development but they cannot allow a

autonomous development but they cannot allow a free-for-all," he says.

Object-oriented techniques could help to bring power to users in a controllable way. Personal computers have also caused a revolution in the professional programmers' world.

The modern programmer sits in front of a specialised 'workstation', connected to a development database, and work on the business of building and maintaining software in the same way that a clerk would work on an inventory control operation.

operation.

Personal computers (or workstations) and networks bring programmers, systems designers and end users closer together than ever before. They are all users of the same system each with a clear role to play. Object-oriented techniques allow professional programmers to build useful components. ponents which users can choose and combine to produce

choose and combine to produce their own custom applications. This would seem to be a much more natural division of labour and a clear way to solve many productivity problems in the software business. IBM executives are fond of an analogy with the early motor industry. In the days when cars were difficult to operate and maintain a large car manufacturer conducted a survey which showed that there would which showed that there would be a shortfall of a million pro-fessional chauffeurs within five

Mather than find ways to make existing chauffeurs more productive or ways to train massive numbers quickly, the motor in dustry decided it was time to make cars easier to operate

The development of popular photography and the Kodak Brownie camera shows a similar change of view by manufac-

turers.

The computer industry is on the verge of a similar change design and object-oriented design promises to be an important mechanism to make it easier to

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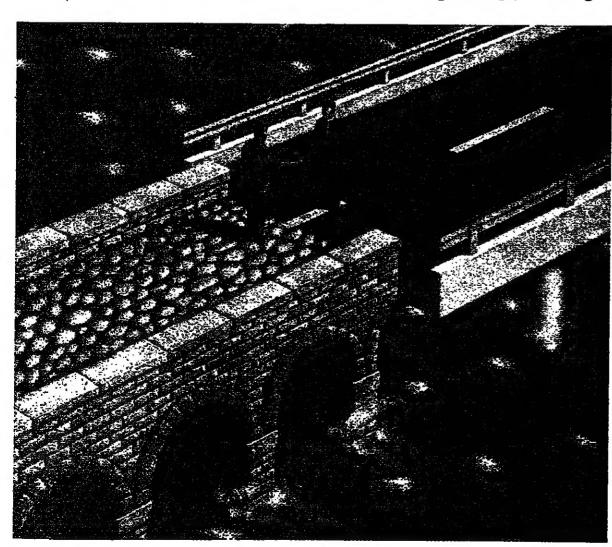
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